#### SOW CHANGE PROPOSAL

SOW-03-833-3-08953A-5/1 SOW-04-CBG-08953A-5/1 Change 1 Change 1 18 September 2001 18 September 2001

STATEMENT OF WORK (SOW)
for the
Specified Overhaul and Repair (SOAR)
of the
M1A1 Main Battle Tank
NSN 2350 01 087 1095

SOW Control Number SOW-03-833-3-08953A-5/1, Change 1 SOW Control Number SOW-04-CBG-08953A-5/1, Change 1

Replace current FY03 and FY04 SOWs with the attached SOWs.

\* Yes / X / or No / / (Place and X in the appropriate block)

Changes to the above SOW's are based on the following:

Changes to the cited SOW's were resultant of a meeting held on 8 Aug 2002 between the FMF/EEAP, PM Tanks, MaintCenter Barstow, MaintDirectorate Logbases, SCMC, FSD Barstow and GDLS rep. To better define/clarify the rqmts specified in the FY03 SOW as well as work over some issues that were impeding production of the FY02 MWS line.

The primary issue was that of the MCP as it relates to the AGT1500 engines. Based on a brief from members of the Ft. Riley "A" team we opted to waive the rqmts of SOW to use the miles per hour prerequisite as the primary acceptance indicator vice that of the MCP for the FY02.

If approved, does this proposed change have the potential to have an impact on the cost or schedule?

\*Changes that have the potential to impact cost or schedule will be reviewed by Maintenance Directorate (MD) and an impact statement provided to SCMC. Changes that do not have the potential to impact cost or

schedule may not be revi	ewed by MD.			
Change Submitted by:	Wallace C. Dawson Senior Equipment Specia PMM 142 MCSC Tank S MARCORSYSCOM, Al	Systems	_	
Change Approved by	Mulace Da Logistics Management S 55 PMM 143(C	(Name) Specialist ode TANS	Pers 1. Dopon 26 Nbs/C	12. el lite
·	MARĆORSYSCOM, AI	.bany, GA		
Change Disapproved by		(Name)		_Date
	<ul> <li>Logistics Management S</li> </ul>	specialist		

(Code

MARCORSYSCOM, Albany, GA

# STATEMENT OF WORK SOW-04-CBG-08953A-5/1 FOR THE SPECIFIED OVERHAUL AND REPAIR (SOAR) FOR THE M1A1 MAIN BATTLE TANK

NSN: 2350-01-087-1095

**TAMCN: E1888** 

ID# 08953A

9 December 2002

## **TABLE OF CONTENTS**

<u>PA</u>	ARAGRAPH	<u>PAGE</u>
1.0	SCOPE	1
1.1		1
2.0	· · · · · · · · · · · · · · · · · · ·	1
2.1	Military Specification	1
2.2		2
2.3	Other Government Documents and Publications	2
2.4	Depot Maintenance Work Requirements	3
2.5	Stock List	4
2.6	Operators Manuals	4
2.7	Technical Manuals for Hull	4
2.8	Technical Manuals for Turret	4
2.9	Technical Manuals for Sight/Fire Control	5
2.1	0 Technical Manuals General	5
2.1	1 Industry Standards	6
3.0	REQUIREMENTS	6
3.1		6
3.2	Detail Task	6
3.2	Phase I-Pre-Induction Inspection	6
3.2	2.2 Phase II- SOAR	7
3.2	Phase III-Inspection, Testing and Final Acceptance	10
3.2	Phase IV-Packaging, Handling, Storage and Transportation	11
3.3		11
3.3		11
3.3	e e	12
3.4		12
	Government Furnished Material (GFM)	
3.5	` /	12
3.6	` '	12
3.7		12
3.8	· ·	13
4.0	1	13
4.1	, ,	13
4.2	, ,	13
4.3	1 1	13
	Tests/Final Assembly and Testing/Final Performance Check	
4.4	Dynamometer Run-In Schedules	13

i

# Appendix

A	Special Instructions For The "SOAR Program"	A-1
В	Inspection Checklist	B-1
C	Pre-Induction Checklist	C-1
D	Leakage Terminology	D-1
E	M1A1 Weekly Status Report	E-1

# STATEMENT OF WORK (SOW)

# For The Specified Overhaul and Repair (SOAR) For The M1A1 Main Battle Tank NSN 2350-01-087-1095

1.0 <u>SCOPE</u>. This Statement of Work (SOW), along with the applicable government documents, publications and military specifications and standards listed in this SOW establishes, sets forth tasks, and identifies the work efforts that shall be performed by the Marine Corps Depots. This document contains requirements to restore the M1A1 Main Battle Tank, hereafter referred to as the M1A1, to Condition Code "A". Condition Code "A" is defined as "serviceable/issuable without qualification, new, used, repaired or reconditioned material which is serviceable and issuable to all customers without limitation or restriction, including material with more than six months shelf-life remaining."

- 1.1 <u>Background</u>. SOAR is defined as "That maintenance technique which incorporates both the advantages of our current Inspect and Repair Only As Required (IROAN) processes and those specified Rebuild processes as defined within an applicable DMWR." The SOAR allows management to apply practicality to equipment maintenance by virtue of not incurring "TOTAL REBUILD" cost yet extending a system's service life beyond that which would have been derived if the system had only undergone an IROAN Maintenance Program. The SOAR concept will also place the burden of responsibility for ensuring those system components or assemblies that were specified within the SOAR as having to be rebuilt back into the Depot arena. Rebuild is technically defined as being of "Like New" condition, whereas IROAN is a process that employs the repair as necessary concept thus moving the burden to the user. IROAN can be defined as a Limited Conditional repair process, which places "NO" liability upon the Depot.
- 2.0 <u>APPLICABLE DOCUMENTS</u>. The following documents form a part of this SOW to the extent specified. Unless otherwise specified, the issues of these documents are those listed in the Department of Defense Index of Specifications and Standards (DoDISS) and supplement thereto which is in effect on the date of solicitation. In the event of conflict between the documents referenced herein and the contents of this SOW, the contents of this SOW shall be the superseding requirements.

#### 2.1 Military Specifications

MIL-C-46168D	Coating, Aliphatic Polyurethane, Chemical Agent Resistant Interim Army WRCARC Type II, if unavailable use Type I
MIL-PRF-2104	Transmission and Final Drives Oil 15W40
MIL-PRF-10924G	Grease, Automotive and Artillery

MIL-PRF-23699 Lubricating Oil, Aircraft Turbine Engine, Synthetic

Base, NATO Code Number 0-156

#### 2.2 Military Standards

MIL-STD-129 DOD Standard Practice for Military Marking

#### 2.3 Other Government Documents and Publications

Tank Combat, Full Tracked, M1 Series, Processing for Storage and Shipment
Military Standard Requisitioning and Issue Procedures
(MILSTRIP) Manual
Installation of Guard Assembly
Installation of Position Location Reporting System
Installation of The Two-Piece Fuel Nozzle Kit
Replacement of Hydraulic Pump Pressure Hose
M1 Series Tank, Case Drain Coupling Modification
Install Bustle Rack Extension on the M1A1 Tank
External Auxiliary Power Unit
Installation of Sincgars Radio System
Installation of Shield in Manual Hydraulic Pump Handle
Assembly
Installation of Lubrication Fitting in The Inner Race Bearing
Assembly
Modify the Gunners Station
Modify the Ammo Door Latch Mechanism
Installation for the Automatic Fire Extinguisher System
Wiring Harness Guard Kit
Installation of the Battlefield Override System
Installation of the Improved Drivers Periscope Retention
Installation of the Smoke Generator Fuel Line
Modify Drivers and Loaders Hatch Rim
Installation of the Manual Blasting Machine Wiring Harness
And Primer Diode Assembly
Modify Drivers Hatch Lifting Mechanism
Modify Commanders Weapon Station Hatch
Improve Operation of the Hull Network Distribution Box
Installation of the Pulse Jet Air System
Replace Stub Case Catcher
Modify Engine Component Fire Extinguisher System
Dispersion Tube
Install Filter Fire Modification
Install Driver's Hatch Interlock System

Install Intercommunication Set Vehicular AN/VIC-3 (V) 1
Install AN/VAS-5 A (V) 4 (DVE)
Installation of Global Positioning System Receiver (PLGR)
Upgrade Fire Control System (Armor Enhancement Initiative)
Modification of the Infinity Collimator (MRS)
Armor Vehicle Maintenance System
Armor Depleted Uranium
120MM Ammunition
Warranty for the Transmission
Mine Clearing Blade, M1A1
Configuration Matrix
Track Components & Solid Rubber Tircs
Electromagnetic Environmental Effects (E3) Procedures for
Installation of Communication Equipment on U.S. Marine
Corps Platforms
NBC Sponson Access Covers Spacers
Warranty Procedures for AGT 1500 Engines Rebuilt by
KSNGB, FT. Riley, Kansas
Warranty Procedures for AGT 1500 Engines
Painting Registration Markings
Camouflage Pattern
Ground Equipment Records Procedures

# Military Handbooks (For Guidance Only)

MIL-HDBK-61 Configuration Management Guidance

# 2.4 Depot Maintenance Work Requirement (DMWR)

DMWR 9-1200-206-CEU DMWR 9-1200-206-GPS-1 DMWR 9-1200-206-GPS-2	Computer Electronic Unit Gunners Primary Sight Gunners Primary Sight Azimuth Drive Assembly
DMWR 9-1200-206-GPS-3 DMWR 9-1200-206-GPSE	Gunners Primary Sight Objective & Relay Assembly Commanders Gunners Primary Sight Extension
DMWR 9-1200-206-GTR DMWR 9-1200-206-LOS-EU	Gun Trunnion Resolver Line of Sight Electronic Units
DMWR 9-1200-206-LRF DMWR 9-1200-206-STDA	Laser Range Finder Servo Torque Drive Assembly
DMWR 9-1200-206-TEU DMWR 9-1200-206-TIS	Thermal Electronic Unit Thermal Image System
DMWR 9-1200-206-TPCU DMWR 9-1200-206-TRU	Thermal Power Control Unit Thermal Receiver Unit
DMWR 9-1200-206-GAS DMWR 9-2350-255-3	Gunners Auxiliary Sight Armor Repair

DMWR 9-2520-276 Vols1-3	Transmission Assembly W/Container
DMWR 9-2520-279	Final Drive
DMWR 9-2530-200-24	M1 Hull Track
DMWR 9-2350-264-2	Turret M1& M1A1
DMWR 9-2350-264-2-1	Traverse Servomechanism
DMWR 9-2350-264-2-2	Elevation Servomechanism
DMWR 9-2350-264-2-3	Turret Hydraulic Distribution Valve
DMWR 9-2350-264-2-4	Hull/Turret Slip Ring Assembly
DMWR 9-2350-264-2-5	Hydraulic Motor Assembly
DMWR 9-2350-555 Vols 1-6	Hull Power Plant Electronics Components
DMWR 9-2520-276-1 Vols 1-3	Transmission Assembly W/Container
DMWR 9-2550-526	Hydraulic Pump
DMWR 9-2835-255 Vols 1-5	Turbine Engine, Field Service Model AGT 1500
DMWR 9-2910-231	Electro-Mechanical Fuel System
DMWR 9-2920-254	Generator (Westinghouse)
DMWR 9-2920-259	Generator (Bendix)
DMWR 9-2940-200	Rotary Pump Assembly
DMWR 9-4320-326	Hydraulic Pump (Vickers)
DMWR 9-4800-206	Nuclear, Biological, Chemical System

## 2.5 Stock List

SL-3-08953A Tank, Combat, Full Tracked M1A1

#### 2.6 Operators Manuals

TM 9-2350-264-10-1	Operator's Manual Vol 1
TM 9-2350-264-10-2	Operator's Manual Vol 2
TM 9-2350-264-12	Lube Order

#### 2.7 Technical Manuals for Hull

TM 9-2350-264-20-1-1	Unit Maintenance Manual Vol 1
TM 9-2350-264-20-1-2	Unit Maintenance Manual Vol 2
TM 9-2350-264-20-1-3	Unit Maintenance Manual Vol 3
TM 9-2350-264-20-1-4	Unit Maintenance Manual Vol 4
TM 9-2350-264-20-1-5	Unit Maintenance Manual Vol 5
TM 9-2350-264-24-1	Schematics
TM 9-2350-264-24P-1	Unit Direct and General Support Maintenance
	Repair Parts and Special Tools List
TM 9-2350-264-34-1-1	Unit Direct and General Support Maintenance Vol 1
TM 9-2350-264-34-1-2	Unit Direct and General Support Maintenance Vol 2

# 2.8 Technical Manuals for Turret

TM 9-2350-264-20-2-1	Unit Maintenance Manual Vol 1
TM 9-2350-264-20-2-2	Unit Maintenance Manual Vol 2
TM 9-2350-264-20-2-3	Unit Maintenance Manual Vol 3
TM 9-2350-264-20-2-4	Unit Maintenance Manual Vol 4
TM 9-2350-264-24-2	Schematics
TM 9-2350-264-24P-2	Unit Direct and General Support Maintenance
	Repair Parts and Special Tools List
TM 9-2350-264-34-2-1	Unit Direct and General Support Maintenance Vol 1
TM 9-2350-264-34-2-2	Unit Direct and General Support Maintenance Vol 2

# 2.9 Technical Manuals for Sight/Fire Control

TM 9-1200-206-34-1	Unit Direct and General Support Maintenance Vol 1
TM 9-1200-206-34-2	Unit Direct and General Support Maintenance Vol 2
TM 9-1200-206-34-3	Unit Direct and General Support Maintenance Vol 3
TM 9-1200-206-34P-1	Unit Direct and General Support Maintenance
	Repair Parts and Special Tools List Vol 1
TM 9-1200-206-34P-2	Unit Direct and General Support Maintenance
	Repair Parts and Special Tools List Vol 2

# 2.10 Technical Manuals General.

TM 5-4210-218-13&P	Fire Bottles
TM 9-1000-202-14	Evaluation of Cannon Tubes
TM 9-2300-422-23&P	Oil Analysis Program
TM 9-2520-276-34	Transmission Maintenance
TM 9-2520-276-34P	Transmission Repair Parts and Special Tool List
TM 9-2520-279-34P	Final Drive
TM 9-2835-255-34	Engine Maintenance
TM 9-2835-255-34&P	Engine Repair Parts and Special Tool List
TM 9-4910-573-14&P	Ground Hop Support Set
TM 9-4910-751-14&P	STE-M1
TM 9-4910-753-13&P	Powerpack Maintenance Stand
TM 9-4931-586-12-1&P	Test Set DSETS (Core)
TM 9-4931-586-12-2&P	Test Set DSETS (M1)
TM 9-4931-586-12-4&P	Test Set DSETS (TIS)
TM 9-4931-586-30&P	Test Set DSETS (DS/MAINT)
TM 9-4933-259-14&P	Muzzle Boresight
TM 9-2530-200-24	Track
TM 9-6115-24&P1	External Auxiliary Power Unit
TM 11-5855-249-10	Drivers Viewer Operator's Manual
TM 11-5855-249-20	Drivers Viewer Maintenance Manual
TM 11-5865-309-2	Missile Countermeasure Device
TM 11-5855-311-12&P-1	Operators and Unit Maintenance Manual For Driver's
	Vision Enhancer (DVE)

#### 2.11 Industry Standards

ANSI/ISO/ASQC Q9001-2000

JESD625-A

Quality Management Systems-Requirements

Requirements for Handling Electrostatic-Discharge

Sensitive (ESDS) Devices

Industry Standards (For Guidance)

ANSI/EIA-649

National Consensus Standard for Configuration

Management

Copies of Military Specifications and Standards are available from DOD Single Stock Point, Document Automation and Production Service, Building 4/D, 700 Robbins Avenue, Philadelphia, PA 19111-5094, commercial telephone number (215) 697-2179 or DSN 442-2179, or <a href="http://www.dodssp.daps.mil">http://www.dodssp.daps.mil</a>. Copies of other government documents and publications required by contractors in connection with specific SOW requirements shall be obtained through the Contracts Department (Code 891), P. O. Drawer 43019, 814 Radford Blvd., Marine Corps Logistics Bases (MCLB), Albany, GA 31704-3019, commercial telephone number (229) 639-6761 or DSN 567-6761. Copies of engineering drawings, if applicable, shall be obtained from the Supply Chain Management Center, Attn: Code 583-1, 814 Radford Blvd. Suite 20320, Albany, Georgia 31704-0320, commercial telephone number (229) 639-6476 or DSN 567-6476.

#### 3.0 REQUIREMENTS.

- 3.1 General Task. In fulfilling the specified requirements, the Depots shall:
  - a. Provide material, labor, facilities, missing parts and repair parts necessary to specifically rebuild, diagnose, restore, and test the M1A1. Upon completion of the SOAR, vehicles shall be condition Code "A."
  - b. Special Instructions in Appendix "A" must be adhered to.
  - c. The Depots shall provide all reports and Data Requirements List identified in Section 4.0 of this SOW.
  - d. Final on-site inspection using Appendix "B" shall be performed and witnessed by an Armor Fire Support Systems (AFSS), Marine Corps Systems Command (MCSC), PMM-142 Tank Section, Albany, Georgia or a designated representative.
- 3.2 <u>Detail Tasks</u>. The following tasks describe the different phases for the SOAR of the M1A1, Main Battle Tank.
- 3.2.1 <u>Phase I Pre-Induction Inspection</u>. Pre-Induction Inspection Analysis shall be performed for each M1A1 Tank to identify any missing components. These findings shall be annotated and

provided to MCSC, AFSS, PMM-142 Tank Section, Albany, Georgia in accordance with Section 4.0 and the Special Instructions (Appendix A) of this SOW, and using the checklist in Appendix C.

3.2.2 <u>Phase II - SOAR</u>. After Pre-Induction Inspection has been completed, this Statement of Work, shall be accomplished in accordance with the following documents/publications:

DMWR 9-1200-206-CEU	Computer Electronic Unit
DMWR 9-1200-206-GPS-1	Gunners Primary Sight
DMWR 9-1200-206-GPS-2	Gunners Primary Sight Azimuth Drive Assembly
DMWR 9-1200-206-GPS-3	Gunners Primary Sight Objective & Relay Assembly
DMWR 9-1200-206-GPSE	Commanders Gunners Primary Sight Extension
DMWR 9-1200-206-GTR	Gun Trunnion Resolver
DMWR 9-1200-206-LOS-EU	Line of Sight Electronic Units
DMWR 9-1200-206-LRF	Laser Range finder
DMWR 9-1200-206-STDA	Servo Torque Drive Assembly
DMWR 9-1200-206-TEU	Thermal Electronic Unit
DMWR 9-1200-206-TIS	Thermal Image System
DMWR 9-1200-206-TPCU	Thermal Power Control Unit
DMWR 9-1200-206-TRU	Thermal Receiver Unit
DMWR 9-1200-206-GAS	Gunners Auxiliary Sight
DMWR 9-2350-255-3	Armor Repair
DMWR 9-2520-276 Vols1-3	Transmission Assembly W/Container
DMWR 9-2520-279	Final Drive
DMWR 9-2530-200-24	M1 Hull Track
DMWR 9-2350-264-2	Turret M1& M1A1
DMWR 9-2350-264-2-1	Traverse Servomechanism
DMWR 9-2350-264-2-2	Elevation Servomechanism
DMWR 9-2350-264-2-3	Turret Hydraulic Distribution Valve
DMWR 9-2350-264-2-4	Hull/Turret Slip ring Assembly
DMWR 9-2350-264-2-5	Hydraulic Motor Assembly
DMWR 9-2350-555 Vols 1-6	Hull Power Plant Electronics Components
DMWR 9-2520-276-1 Vols 1-3	Transmission Assembly W/Container
DMWR 9-2550-526	Hydraulic Pump
DMWR 9-2835-255 Vols 1-5	Turbine Engine, Field Service Model AGT 1500
DMWR 9-2910-231	Electro-Mechanical Fuel System
DMWR 9-2920-254	Generator (Westinghouse)
DMWR 9-2920-259	Generator (Bendix)
DMWR 9-2940-200	Rotary Pump Assembly
DMWR 9-4320-326	Hydraulic Pump (Vickers)
DMWR 9-4800-206	Nuclear, Biological, Chemical System
MI-08953A-25/1	Installation of Guard Assembly
MI-08953A-25/3 w/CH 1	Installation of Position Location Reporting System
MI-08953A-25/5	Installation of The Two-Piece Fuel Nozzle Kit
MI-08953A-25/7	Replacement of Hydraulic Pump Pressure Hose
MI-08953A-25/29	M1 Series Tank, Case Drain Coupling Modification

NAT 00052 A 25/21	Install Bustle Rack Extension on the M1A1 Tank
MI-08953A-25/31 MI-08953A-35/4	External Auxiliary Power Unit
	Installation of Sinegars Radio System
MI-08953A-35/2A w/CH 1	Installation of Shield in Manual Hydraulic Pump Handle
MI-08953A-35/8	Installation of Lubrication Fitting in The Inner Race Bearing
MI-08953A-35/9	
257 000504 05/10	Assembly
MI-08953A-35/10	Modify the Gunners Station
MI-08953A-35/11	Modify the Ammo Door Latch Mechanism
MI-08953A-35/12	Installation for the Automatic Fire Extinguisher System
257 000504 0540	Wiring Harness Guard Kit
MI-08953A-35/13	Installation of the Battlefield Override System
MI-08953A-35/14	Installation of the Improved Drivers Periscope Retention
MI-08953A-35/15	Installation of the Smoke Generator Fuel Line
MI-08953A-35/16	Modify Drivers and Loaders Hatch Rim
MI-08953A-35/17	Installation of the Manual Blasting Machine Wiring Harness
	and Primer Diode Assembly
MI-08953A-35/18	Modify Drivers Hatch Lifting Mechanism
MI-08953A-35/19	Modify Commanders Weapon Station Hatch
MI-08953A-35/20	Improve Operation of the Hull Network Distribution Box
MI-08953A-35/21	Installation of the Pulse Jet Air System
MI-08953A <b>-</b> 35/22	Replace Stub Case Catcher
MI-08953A-35/23	Modify Engine Component Fire Ext Sys Dispersion Tube
MI-08953A-35/24	Install Filter Fire Modification
MI-08953A-35/25A	Install Driver's Hatch Interlock System
MI-08953A-35/26	Retrofit External Auxiliary Power Unit
MI-08953A-35/27	Install Intercommunication Set Vehicular AN/VIC-3 (V) 1
MI-08953A-35/28	Install AN/VAS-5A (V) 4 (DVE)
MI-08953A-35/30	Installation of the Global Positioning Receive System (PLGR)
MI-08953A-50/6	Upgrade Fire Control System (Armor Enhancement Initiative)
MI-08953A-50/32	Modification of the Infinity Collimator (MRS)
SL-3-08953A	Tank, Combat, Full Tracked M1A1
TB-09728-14&P	Armor Vehicle Maintenance System
TB 9-1300-278	Armor Depleted Uranium
TB 9-2350-320-14	120MM Ammunition
TB 9-2520-276-12	Warranty for the Transmission
TB 9-2590-509-23&P	Mine Clearing Blade, M1A1
TB 43-0001-39-5	Track Components & Solid Rubber Tires
TI-5820-25/22	Electromagnetic Environmental Effects (E3) Procedures for
	Installation of Communication Equipment on U.S. Marine
	Corps Platforms
TI-08953A-25/10	NBC Sponson Access Covers Spacers
TI-08953A-15/12	Warranty Procedures for AGT 1500 Engines Rebuilt by
	KSNGB, FT. Riley, Kansas
SI-08953A-14/1	Warranty Procedures for AGT 1500 Engines
TM-4750-15/1	Painting Registration Markings

TM-4750-15/2	Camouflage Pattern
TM 9-2350-264-10-1	Operator's Manual Vol 1
TM 9-2350-264-10-2	Operator's Manual Vol 2
TM 9-2350-264-12	Lube Order
TM 9-2350-264-20-1-1	Unit Maintenance Manual Vol 1
TM 9-2350-264-20-1-2	Unit Maintenance Manual Vol 2
TM 9-2350-264-20-1-3	Unit Maintenance Manual Vol 3
TM 9-2350-264-20-1-4	Unit Maintenance Manual Vol 4
TM 9-2350-264-20-1-5	Unit Maintenance Manual Vol 5
TM 9-2350-264-24-1	Schematics
TM 9-2350-264-24P-1	<del>- • • • • • • • • • • • • • • • • • • •</del>
TWI 9-2330-204-24F-1	Unit Direct and General Support Maintenance Repair Parts and Special Tools List
TM 9-2350-264-34-1-1	Unit Direct and General Support Maintenance Vol 1
	Unit Direct and General Support Maintenance Vol 2
TM 9-2350-264-34-1-2	Unit Maintenance Manual Vol 1
TM 9-2350-264-20-2-1	Unit Maintenance Manual Vol 2
TM 9-2350-264-20-2-2	Unit Maintenance Manual Vol 3
TM 9-2350-264-20-2-3	Unit Maintenance Manual Vol 4
TM 9-2350-264-20-2-4 TM 9-2350-264-24-2	Schematics
TM 9-2350-264-24P-2	
1W1 9- 2330-204-24F-2	Unit Direct and General Support Maintenance Repair Parts and Special Tools List
TM 9-2350-264-34-2-1	Unit Direct and General Support Maintenance Vol 1
TM 9-2350-264-34-2-2	Unit Direct and General Support Maintenance Vol 2
TM 9-1200-206-34-1	Unit Direct and General Support Maintenance Vol 1
TM 9-1200-206-34-1 TM 9-1200-206-34-2	Unit Direct and General Support Maintenance Vol 2
TM 9-1200-206-34-3	Unit Direct and General Support Maintenance Vol 2
TM 9-1200-206-34P-1	Unit Direct and General Support Maintenance  Vol 3
TWI 9-1200-200-341-1	Repair Parts and Special Tools List Vol 1
TM 9-1200-206-34P-2	Unit Direct and General Support Maintenance
TWI 9-1200-200-341-2	Repair Parts and Special Tools List Vol 2
TM 5-4210-218-13&P	Fire Bottles
TM 9-1000-202-14	Evaluation of Cannon Tubes
TM 9-1000-202-14 TM 9-2300-422-23&P	Oil Analysis Program
TM 9-2300-422-23&1 TB 9-2350-283-23-1	Configuration Matrix
TM 9-2520-276-34	Transmission Maintenance
TM 9-2520-276-34P	Transmission Repair Parts and Special Tool List
TM 9-2520-270-34P	Final Drive
TM 9-2835-255-34	Engine Maintenance
TM 9-2835-255-34&P	Engine Repair Parts and Special Tool List
TM 9-4910-573-14&P	Ground Hop Support Set
TM 9-4910-751-14&P	STE-M1
TM 9-4910-753-13&P	Powerpack Maintenance Stand
TM 9-4931-586-12-1&P	Test Set DSETS (Core)
TM 9-4931-586-12-2&P	Test Set DSETS (Cole)
TM 9-4931-586-12-4&P	Test Set DSETS (TIS)
171 7 1701 000 12 1001	100. 20. 20. 20. (110)

TM 9-4931-586-30&P	Test Set DSETS (DS/MAINT)
TM 9-4933-259-14&P	Muzzle Boresight
TM 9-2530-200-24	Track
TM 9-6115-24&P1	External Auxiliary Power Unit
TM 11-5855-249-10	Drivers Viewer Operator's Manual
TM 11-5855-249-20	Drivers Viewer Maintenance Manual
TM 11-5865-309-2	Missile Countermeasure Device
TM 11-5855-311-12&P-1	Operators and Unit Maintenance Manual for
	Driver's Vision Enhancer (DVE)

**NOTE:** Deficiencies noted on the Pre-Induction Inspection analysis shall be rebuilt/replaced. The SOAR requires the replacement of mandatory replacement parts.

#### a. Hardware.

- (1) Replace broken, unserviceable and/or missing hardware including nuts, bolts, screws, washers, turnlock fasteners, mandatory replacement items, safety and one-time use items, etc. Unserviceable would include any of the above that failed to function properly.
- (2) Ensure proper hardware locking devices are present on all moving mechanical assemblies.
- (3) Hardware normally supplied with commercial parts shall be used in accordance with applicable documents/publications and directives.

#### 3.2.3 Phase III - Inspection, Testing and Final Acceptance.

- a. Inspection, Testing and Final Acceptance of the M1A1, Main Battle Tank shall be conducted in accordance with Appendix "A" and Appendix "B." These completed documents shall be provided MCSC, AFSS, PMM-142 Tank Section Albany, Georgia in accordance with Section 4.0 of this SOW.
- b. The Depots shall be responsible for the conducting of required tests and shall ensure all necessary personnel are available to complete the final acceptance. Final Acceptance Inspection and Testing shall be accomplished by the Depots along with a MCSC, AFSS, PMM-142, Tank Section, Albany, Georgia or designated representative present. A minimum of two-week notice shall be given to AFSS, PMM-142 Tank Section prior to the beginning of final acceptance inspection and testing. The testing area shall be clear of all equipment parts, components, etc., not required for the final inspection/test.
- c. The Depots shall be responsible for correcting any deficiencies identified during the final inspection/testing. MCSC, AFSS, PMM-142, Tank Section, Albany, Georgia representative may require the Depots to repeat test portions thereof, if the original test fails to demonstrate compliance with this SOW.

#### 3.2.4 Phase IV – Packaging, Handling, Storage and Transportation (PHS&T).

a. The Depots shall be responsible for the preservation and packaging of items being repaired/rebuilt under the terms of this Statement of Work. Items scheduled for long-term storage shall be in accordance with level "A" requirements of the ATPD 2240. Items scheduled for shipment to all other destinations, with the exception of the Maritime Pre-Positioned Forces (MPF), shall be preserved to level "B", Drive-on/Drive-off. Items scheduled for overseas destinations shall be level "B" and have a label affixed which reads: "NOT FOR WEATHER DECK STOWAGE." Items scheduled for MPF shall be preserved to level "B", MPF Modified Drive-away

- b. Drive-on/Drive-off and Modified Drive-away are defined as follows:
- (1) Drive-on/Drive-off: Batteries shall be hot and disconnected from the vehicle electrical system. Terminals and leads shall be taped. Fuel tanks shall be ¼ full of JP-8 (MPF- JP-5). Air intake system, exhaust system, brake system, drive train and gauges shall be depreserved.
- (2) MPF Modified Drive-Away: Batteries shall be hot and connected to the vehicle electrical system. Fuel system shall be 3/4 full of JP-8 (MPF- JP-5). Air intake system, exhaust system, brake system, drive train and gauges shall be depreserved. Fire extinguisher bracket and scats shall be installed.
  - c. Marking for shipment and storage shall be in accordance with MIL-STD-129.
- d. The Marine Corps will provide the Fleet Support Division (FSD) and Maintenance Center's (MC3) with the shipping address (es) for delivery of the SOAR equipment. FSD shall be responsible for arranging for the shipment to the pre-designated site(s). The Marine Corps will be responsible for transportation cost associated with shipping the subject equipment to and from the Depots.

#### 3.3 Configuration Management.

#### 3.3.1 Configuration Status Accounting (CSA)

- a. The Contractor shall record and submit data on retrofit accomplished during Phase II. All approved Modification Instructions (MI's) shall be verified or applied during Phase II of the SOAR Program.
- b. The Depot shall determine the application status of approved configuration changes by visual inspection. MCSC, AFSS, PMM-142, Tank Section, Albany, Georgia will identify the configuration changes to be inspected by furnishing a Configuration Inspection Checklist to the Depots. The Depots shall use only one checklist Appendix C per M1A1, Main Tank Battle to record their inspection findings along with other required data.

c. The Depots shall record serial numbers of the assemblies listed on the Configuration Inspection Checklist. The Depots shall record the information on the same form that was used to record the application status of configuration changes.

- 3.3.2 <u>Configuration Management</u>. The Depots shall apply configuration control procedures to established configuration items. The Depots shall not implement any changes to an item's documented performance or design characteristics without written authorization. If it is necessary to temporarily depart from the authorized configuration, the contractor shall prepare and submit a Request for Deviation. MIL-HDBK-61 and ANSI/EIA-649 provide guidance for preparing this configuration control document.
- 3.4 Government Furnished Equipment (GFE)/Government Furnished Materiel (GFM). The Management Control Active (MCA/ Code 573-2) will coordinate Government Furnished Equipment/Government Furnish Materiel (GFE/GFM) requests and maintain a central control system on all government owned assets in the contractor's possession. The MCA will forward a GFE Accountability Agreement to the contractor for signature on an annual basis to establish a chain of custody and identify property responsibilities for Marine Corps assets. The Marine Corps will furnish all Modification Instruction (MI) Kits; (also known as Modification Work Orders (MWO) Kits) that are not presently installed with notification after the pre-induction inspection. The contractor is to acknowledge receipt of GFM to the MCA within 15 days of receipt. This can be done by mailing a copy of the DD1348 to Materiel Management Department, Management Control Activity (Code 573-2), 814 Radford Blvd., STE 20320, Albany, GA 31704-0320 or faxing a copy to commercial telephone number (229) 639-5498 or DSN 567-4498.
- 3.5 <u>Contractor Furnished Material (CFM)</u>. The Contractor may requisition materiel as required in the performance of the SOW through the DoD Supply System. DoD 4000.25-1-M (MILSTRIP), Chapter 11 provides guidance to contractors on the requisitioning process. The contractor's decision to utilize CFM procured from the DoD Supply System shall be based upon cost effectiveness, availability of materiel and the required completion/delivery date.
- 3.6 Electromagnetic Environmental Effects (E3) Procedures.
- a. The Depots shall plan for the proper E3 control procedures during the SOAR process and use TI-5820-25/22 in conjunction with the detailed requirements specified in this document.
- b. <u>Electrostatic Discharge (ESD) Control Program</u>. The Depots shall establish, implement, and document an ESD control program following the guidelines provided in JESD625-A. ESD protective measures shall be used during manufacturing, handling, inspection, testing, marking, packaging, storing, and transporting ESD sensitive components.
- 3.7 Quality Assurance Provisions. The Depots shall provide and maintain a quality System that as a minimum adheres to the requirements of ANSI/ISO/ASQC Q9001-2000, Quality Management Systems Requirements. The Depots work shall be subject to reviews and inspections for compliance with the procedures and standards by MCSC, AFSS, PMM-142 Tank Section, Albany, Georgia during working hours. Inspection by AFSS, PMM-142, Tank Section of test plans and

materials furnished hereunder does not relieve the Depots from any responsibility regarding defects or other failures to meet contract requirements which may be disclosed prior to final acceptance. Failure of the Depots to promptly correct deficiencies discovered shall be reason for suspension of acceptance until corrective action has been accomplished. The Depots shall have in place documented procedures and standards for quality assurance and the Depots work shall be subject to reviews and inspections for compliance with the procedures and standards by MCSC, AFSS, PMM-142, Tank Section, Albany, Georgia. Noncompliance with procedures resulting in degraded quality of work may result in a stop-work order requiring action by the Depots to correct the work performed and to enforce compliance with quality assurance procedures or face contract termination. Notwithstanding such MCSC, AFSS, PMM-142, Tank Section, Albany, Georgia inspection, it shall be the Depots responsibility to ensure that the entire system meets the performance requirements delineated and addressed in this SOW and applicable references. The contractor shall establish and maintain an Inspection System Requirement in compliance with ANSI/ISO/ASQC Q9001-2000 and in accordance with this SOW. The Depots shall provide an Inspection and Test Plan to MCSC, AFSS, PMM-142, Tank Section, Albany, Georgia.

- 3.8 <u>Rejection</u>. Failure to comply with any of the specified requirements listed herein shall be reason for rejection by MCSC, AFSS, PMM-142 Tank Section, Albany, Georgia. The Depots shall, at no additional cost to MCSC, AFSS, PMM-142 Tank Section, Albany, Georgia, provide the following:
  - a. Develop an approach for modification or correction of all discrepancies.
  - b. Upon approval of a documented approach, the Depots shall correct the discrepancies.
- 4.0 <u>Reports</u>. The following reports shall be delivered and submitted to MCSC, AFSS, PMM-142, Tank Section, Albany, Georgia 814 Radford Blvd, STE 20343, Albany, Georgia 31704-0343.
- 4.1 Weekly Progress Report. The Depots shall provide Weekly Progress Reports, to AFSS, PMM-142 Tank Section, summarizing the progress and status of the SOAR Program (Appendix "D" may be used as an example).
- 4.2 <u>Monthly Progress Report</u>. The Depots shall provide Monthly Cost Reports to AFSS, PMM-142, Section, summarizing the funds expended to include the material/repair parts utilized.
- 4.3 <u>Pre-Induction Inspection/Final Inspection Record/Acceptance Tests/Final Assembly and Testing/Final Performance Check.</u> The Depots shall complete a Pre-Induction Inspection Checklist, Final Inspection Record, Acceptance Test, Final Assembly and Testing, and Final Performance Check for each M1A1, Main Battle Tank repaired. These documents shall be available during final acceptance inspection. One copy of each document shall be provided to AFSS, PMM-142, Tank Section after final acceptance of the M1A1, Main Battle Tank.
- 4.4 <u>Dynamometer Run-In Schedules</u>. The contractor shall complete a copy of the Dynamometer Run-In Schedules. These documents shall show dynamometer test results required on the M1A1, Main Battle Tank during the SOAR Phase. These documents shall be available during final

acceptance testing. One copy shall be provided to AFSS, PMM-142, Tank Section, after acceptance of the M1A1, Main Battle Tank.

# APPENDIX A SPECIAL INSTRUCTIONS FOR THE SOAR FOR THE M1A1 TANK

- 1. All Supply System Responsibility Items (SSRI) will be repaired/boxed and shipped with each vehicle to Condition Code "A" standards, with the exception of the Driver's Viewer Enhancement (DVE) and Sinegars Radios.
- 2. The Depots shall perform a joint Final Acceptance Inspection with an MCSC, AFSS, PMM-142, Tank Section, Albany, Georgia representative or delegate in accordance with Appendix "B".
- 3. All vehicle lubricants will be replaced. New improved GAA Grease MIL-PRF-10924G will be used.
- 4. Remove power pack, steam clean engine compartment, remove all rust and corrosion, and repaint in accordance with local directives.
- 5. Preservative will be added to engine turboshaft oil MIL-PRF-23699 to comply with MPF directives on all vehicles identified for shipment to MPS.
- 6. 15W40 Oil will be used in Transmission and Final Drives in accordance with MIL-PRF-2104.
- 7. All shocks, road arm housings, support arms will be removed 100%. Rotary Shocks found unserviceable will be repaired/replaced as necessary in accordance with Technical Manuals. All road arms and support arms will be abrasively cleaned, inspected and painted.
- 8. All rear fuel cells will be removed drained and cleaned in accordance with current directives. All forward fuel cells will be drained, inspected and cleaned in accordance with current directives. All fuel cells will be inspected and pressure tested prior to installation.
- 9. JP-8 fuel will be used in all Marine Corps Tanks except for vehicles going to Blount Island Command/ MPF. JP-8 is the primary fuel authorized for use. (JP-5 for MPF)
- 10. Smoke Generator electrical cable for all vehicles will be disconnected at smoke generator fuel pump prior to adding JP-5/JP-8. A Warning Tag will be attached to the vehicle master panel stating that the smoke generator will not be used (Tag should state: Fuel cells contain JP-5/JP-8)
- 11. All Hull and Turrets and bolt-on components will be disassembled, abrasively cleaned and inspected for cracks and repaired as required. Visual cracks shall be inspected using non-destructive testing (NDT).
- 12. All vehicle tracks, to include pads, will be replaced 100% serviceable Condition Code "A" T158LL Track, in accordance with TB 43-0001-39-5. Any serviceable track removed and not reused

Appendix A A-1

shall be reported to SCMC Code 576-3, with a copy to MCSC, AFSS, PMM-142, Tank Section, Albany, Georgia and disposition instructions will be provided to ensure maximum usage is attained.

- 13. All road wheels will be serviceable Condition Code "A" in accordance with TB 43-0001-39-5. Condition Code "B" road wheels shall be reported to SCMC Code 576-3, with a copy to MCSC, AFSS, PMM-142, Tank Section, Albany, Georgia and disposition instructions will be provided to ensure maximum usage is attained.
- 14. All NBC drain holes and hull access holes will be screened prior to shipment.
- 15. All LRU, DECU and CEU batteries will be 100% replaced. (EMRS. if applicable)
- 16. Ammo compartments must be free of moisture, dirt, rust and corrosion. Preserve ammo door with solid film lubricant.
- 17. Fire extinguishers shall have only MARROTTA or HTL type valves (NO CROWN). 1600 Test will be performed.
- 18. All fire bottles will be hydrostatic tested and stenciled in one inch letters to reflect test date in a visible area as well as being stamped w/test date.
- 19. Hydraulic leaks are unacceptable and replace the Brake Accumulator Tee, Tube to Boss (NSN 4730-00-684-6028) on all vehicles.
- 20. All Gas Particulate/Main NBC/Backup NBC filters will be replaced 100%. Only M48A1 Filters will be used. All new NBC filters will remain boxed until receiving unit accepts the vehicle.
- 21. All V Packs and exhaust duct seals shall be replaced 100%. All precleaners will be cleaned/inspected; ensuring vortex tubes are not damaged or bent. All serviceable excess will be reported to SCMC Code 576-3, with a copy to MCSC, AFSS, PMM-142, Tank Section, Albany, Georgia.
- 22. Serial Numbers D11239/L11239 and above will be of M1A1 Common Tank configuration.
- 23. During the SOAR of the M1A1 Tanks, the Depots will remove all existing Communication installation hardware components and clean/inspect/test for serviceability. Any component found unserviceable or not in compliance with USMC E3 requirements will be replaced. After hardware is installed in the vehicle, "Shop Radios" will be installed and system operationally checked prior to vehicle acceptance. PLRS is checked for voltage at the connectors and cables only.
- 24. Ensure all tanks are in compliance with E3Q Directives.
- 25. All main NBC components will be removed from the sponson box, disassembled, rebuilt and tested as individual components on the applicable component test consoles prior to reinstallation.

A-2

The NBC seal shall be replaced. NBC components must be free of moisture, dust, rust and corrosion.

- 26. Inspect PJAS Scavenge Fan, Blades, Disk Packs and Universal joints and repair/replace.
- 27. Unless otherwise directed, the contractor shall paint the interior/exterior of the vehicle with Water Reducible Chemical Agent Resistant Coating (CARC), MIL-C-46168D Type 1 and spot paint the interior as indicated in TM 4750-15/1 and TM 4750-15/2. Should the coating not be available the contractor shall request a waiver from MCSC, AFSS, PMM-142, Tank Section, Albany, Georgia on a by system/vehicle bases.
- 28. The Inspector will record a "B" in block 16 of the monthly page (NAVMC 10394). Block 17 That states the BI-Annual Service Preventive Maintenance (BSPM) has been completed.
- 29. All engines and transmissions will be separated and each module will be inspected for erosion, corrosion and thermal damage. All engines and transmissions will be 100% disassembled and rebuilt.

#### NOTE

All Engine and Transmissions will be dynamometer tested to ensure they meet current specifications prior to installation back into the vehicle.

30. Engine Performance: Tanks leaving the Contractor must meet the current performance standard of 41.5 Miles Per Hour + or- 3.5 Miles Per Hour as determined by the use of a Radar Gun. Mission Capability Power (MCP) number will not exceed 3. Engine should have sufficient power to achieve and maintain the required speed regardless of the time of day or temperature. Any exception would require a waiver from MCSC, AFSS, PMM-142, Tank Section, Albany, Georgia

#### Note

The MCP number will not be the determining factor on the acceptance/rejection of an engine. If an Engine Displays a power percentage or MCP number which does not meet with the unit standard, engine performance can be verified by operating it in a vehicle per the manual vehicle speed test. The engine health test will be performed twice: once after road test, and again 24 hours later (when the engine is cold).

ке	quest for walver	snail contain	the following:	
a.	Date of Test		·	
b.	Temp at Time	of Road Test _	<del>-</del>	
c.	DECU Percent	of Power		
d.	MCP#	<b>.</b>		
e.	Day Power	% TI V	PTS V	Table A and E 20-1-2
f.	Altitude	Table	G 20-1-2	
g.	Vehicle Location	on		<b>-</b>
h.	Engine and Ve	hicle Ser#'s		

ĺ.	Engine Components Replaced During Rework		

- 31. The hull network box time meter shall be replaced.
- 32. The following assets must be totally rebuilt/overhauled by a fifth echelon rebuild facility (either Tobyhanna Army Depot or the Original Mfg.), should the capabilities not exist at the designated SOR.

LRF: Laser Range Finder
TRU: Thermal Receiver Unit
ICU: Image Control Unit
GPS: Gunners Primary Sight

#### NOTE

All LRU's will be tested on DESETS and repaired or replaced as required. All LRU's will be retested prior to installation and cleaned and repainted as required.

- 33. Frequency response and stabilization at the test track will be used along with the 1800 Test.
- 34. All Electronics, LRU's, and Optical components will be disassembled, cleaned and checked for rust/corrosion/moisture and thermal damage. Any unserviceable components will be replaced or forwarded to the appropriate SOR. All circuit card connections will be tested, cleaned and the LRU's will be retested prior to reinstallation.
- 35. All wiring harnesses will be removed, cleaned and 100% tested utilizing electronic test equipment prior to reinstallation.
- 36. All gun tubes must have 750 (EFC's) remaining; Gun tubes removed with fewer than 750 shall be identified to SCMC Code 576-3, with a copy to MCSC, AFSS, PMM-142, Tank Section, Albany, Georgia for disposition instructions. All tubes shall be Bore-scoped to ensure serviceability.
- 37. All Recoil, Traversing and Elevation Mechanisms will be 100% disassembled and rebuilt in accordance with DMWR 9-2350-264-2.
- 38. All Vision Blocks will be Condition Code "A". (Only Laser Safe vision blocks are authorized).
- 39. The Slip Ring will be inspected/tested and replaced if required.
- 40. The Race Ring shall be disassembled and inspected/repaired. The inspection should include:
  - (a) Disassembly of the race ring.
  - (b) Inspect race surfaces for pitting, gouging and wear.
  - (c) Machining of race surfaces if required.
  - (d) Inspection of all threaded holes on the race ring, using GO/NO-GO gauges.

- (e) Replacement of all bearings and springs.
- (f) Replacement of race ring dust seal.
- (g) Replacement of race ring NBC seal.
- (h) Replacement of race ring NBC seal retaining spring.
- 41. The following action will be taken to improve the quality of preservation on the M1A1, Main Battle Tank, in addition to the requirements of ATPD 2240 dated 9 June 1998.
  - a. Cover the NBC air intake on the right side of the vehicle.
  - b. Cover the EAPU exhaust fan.
  - c. Cover the air access door on the right and left of the vehicle
  - d. Disconnect the negative buss bar. Seal battery box doors.
  - e. Remove the drain plugs on the bottom of the storage box.
  - f. Seal Tank Commanders hatch.
  - g. Apply P-19 preservative to the inside turret bolts around the Loaders Hatch.
  - h. Apply P-11 (GAA) to all exposed non-painted bare metal on the interior of the Tank.
  - i. Ensure all required areas in the interior of the vehicle are painted.
  - i. Tape up Drivers and Loaders hatch.

#### NOTE:

This operation will have to take place after the vehicle is placed on the rail car.

- k. Seal the access hole for the wind sensor.
- 1. Cut a breather hole in the wind sensor preservation bag so the bag will not collect water or condensation.
- m. Clean the paint off of the side panel pins and apply P-19 preservation to the surface.
- n. Scal the gun tube elevation area on exterior of turret.
- 42. MCSC, AFSS, PMM-142, Tank Section, Albany, Georgia reserves the right to request a Production Progress Meeting when deemed appropriate to discuss issues of concern regarding throughput time. MCSC, AFSS, PMM-142, Tank Section, Albany, Georgia, support objectives as they relate to throughput time are threshold of 140 days with an optimal objective of 90 days.

## **NOTE:**

For purposes of clarification and definition, throughput time shall be defined as that time the vehicle is received by the contractor until the time the vehicle is placed back into Condition Code "A" status.

Appendix A A-6

ITEM

STANDARD

INSPECTOR

# **APPENDIX B**

# M1A1

# **Inspection Checklist**

# **HULL**

ITEM	STANDARD	INSPECTOR
1. ROADTEST  Inspect vehicle condition and fluid levels prior to road test. Class II, III fuel leaks are unacceptable. Verify operation of all controls and suspension system components. Warning/caution lights must operate. Road test vehicle at least 5km. Perform Engine Health test and BIT on DECU prior to and after road test; If fault messag appears on display, troubleshoot accordingly.		ll controls ghts must e Health
2. PERFORMANCE	Min. speed requirement shall be 41.5 mph +/- 3.5 mph a determined by the use of a Radar Gun. This is a Contract requirement for this SOW.	
3. SPEEDOMETER	Must be operational. Unusual movement of needle is ur	nacceptable.
4. PANELS DIP,	a. Gages, lights and switches shall operate properly.	
DMP, DAP	b. All data shall be legible.	
	c. Mounting.	
5. SMOKE GENERATOR	Smoke generators shall be disconnected and red-tagged column "DO NOT USE"	on steering
6. PARKING AND SERVICE	a. Apply parking brake, move shift control to "D" and r slightly above idle. (1000-1100 rpm). Tank should not re-	•
	b. Hydraulic pressure must remain between 1150 and 1 parking brake gage. Leaks are unacceptable.	700 PSI on

**STANDARD** INSPECTOR **ITEM** 7. DRIFTING Drive tank with control centered. Unusual wondering or pulling is unacceptable. REQUIREMENTS: 3 feet drift maximum in 100 foot distance on smooth pavement. a. Control shall operate properly, no binding. 8. SHIFT RANGE b. Transmission shall operate properly in all ranges. c. Check full steer down shift switch for proper operation 9. TACTICAL IDLE Must operate properly. REQUIREMENT is 1200 - 1400. 10. HULL a. Damaged, missing parts, and leaks are unacceptable. All lines, fittings, hardware, and components shall be serviceable. b. All labels and decals must be affixed and legible 11. SKIRTS, Must all be present and serviceable. Hinges and struts shall be serviceable with pins straight, secured with ring pins or roll pins. **HARDWARE** Cracks and damage are unacceptable. Holes/cracks NTE 3/8", dents NTE 8" in length and 1/2" in depth. 12. FENDERS Shall be properly installed with torsion bar hold-down assemblies. MUDGUARDS 13. HULL ACCESS All doors and accesses shall be serviceable and in place with required hardware & GRILL DOORS 14. EXTERIOR All lights shall function properly, housing shall be serviceable, all mounting secure. Lenses shall not be cracked and shall not contain LIGHTS moisture. 15. PLENUM SEAL Remove hull inspection plate on bottom of vehicle, inspect seal for sealing, cuts, rips, or holes. Insure seal clamp is flat and in place around flange. NOTE: No clamp required on new type seal. **16. DRAIN VALVES** Shall operate properly without binding.

Appendix B B-2

ITEM STANDARD INSPECTOR

17. TRACK ADJUSTING LINK AND TRACK TENSION	Loose, missing, broken hardware and lube fittings, loose or missing lock bolt is unacceptable. Pressure relief valve must be capable of holding 2750 - 3200 PSI.	
18. ROADWHEEL, COMP IDLER, SUPPORT ROLLERS	Must be serviceable to include the wearplates. Fifty percent factor in TM refers to width only. Wear plate shall have a minimum of circumference of the wheel at the top of plate.	
	Leakage Criteria: No grease leakage, however, lubrication leakage is normal at rear of Support Roller in seal adjacent to housing during lubricating.	
19. SHOCK ABSORBERS	a. After road test, check housings for temp cooler than others.  Check with hand.	
	b. The following conditions are unacceptable:	
	(1) Oil leaks.	
	(2) Loose or damaged hardware, plugs, and fittings.	
	(3) Cracked, painted, or distorted sight gage. (frosting is acceptable)	
	(4) Contaminated.	.==
	c. Leakage Criteria: No oil leakage around Shock Absorbers.	
20. BUMPER STOP	Missing/broken brackets are unacceptable. Required mounting	

hardware shall be tight at the 1, 2, and 7 positions.

Appendix B

**BRACKETS** 

INSPECTOR

21. TORSION BARS	The following conditions are unacceptable:	
	(1) Arm lifted off track.	
	(2) Number 2 thru 6 arms can be lifted with pry bar.	-
	(3) Tank is tilted or lifting of road wheel and track at the number 1, 2, and 7 positions	_
	(4) Broken, damaged, or missing caps.	_
22. ROADWHEEL	a. After road test, check hubs for one hotter (unusual temp) than others with hand.	_
	b. The following conditions are unacceptable:	
	(1) Improper oil level.	_
	(2) Loose hardware, plugs and fittings.	_
	(3) Cracked, painted, or distorted hubcaps.	_
	(4) Missing or loose support roller retainer shaft retainer pin.	_
	(5) Contaminated	_
	c. Comp idler shall meet requirements of 1/8 in. clearance between end connector and skirt.	_
	d. Gap between the comp idler and retainer shall not exceed 5/32 in. "No" Metal to metal contact is authorized.	_
	e. Leakage Criteria: No evidence of oil leakage (weep) around Road wheel and Compensating Idler Hubs at fill plug and flange of hubcaps. At the rear of each hub in the seal area leakage not to exceed 1 drop of oil in 2 hours. At each Arm Upper Spindle in the seal area at positions 1, 2, and 7 leakage not to exceed 1 drop of oil	

STANDARD

positions 3, 4, 5, and 6.

in 2 hours. No grease leakage at seal areas at Upper Spindle at

ITEM

#### STANDARD

INSPECTOR

23. SPROCKETS,
HUBS, FINAL
DRIVES

The following conditions are unacceptable:

- (1) Missing or loose hardware.
- (2) Cracks or sharp edged gouges at hub.
- (3) Exceeds wear gauge limits.
- (4) Excessive cupping
- (5) If power pack is pulled, check trunions, bolt holes etc.

Leakage Criteria: No evidence of drip or droplet leakage except during and immediately after engine operation when a drip of 1 drop per 5 minutes is permissible at the Output Shaft Seal area.

#### 24. TRACK

- a. Inspect shoe assemblies for missing, bent, or broken center guides and loose or missing nuts and bolts.
- b. Check for missing, cracked, or unserviceable end connectors.
- c. End connector wedge bolts shall be tight and seated properly.
- d. Check for cracked or broken end plates.
- c. Inspect for dead (broken) track shoes. (A dead track shoe appears to be out of line.)
- f. Check for exposed binocular tubes on road wheel path and or grouser surface in accordance with TM 9-2350-264-34-1-2.

# 25. FUEL FILLER **COVERS**

Filler strainers shall be serviceable and clean. Neck cap, chain, NECKS, TANK, AND grommet cover, and hardware shall be serviceable. Leaks are unacceptable

#### 26. TOW PINTLE, TOW POINTS ON HULL

- a. Locks, safety pins, and chains shall be installed and free of damage.
- b. Tow pintle shall open and rotate properly, cracks and excessive play is unacceptable.

INSPECTOR **STANDARD** ITEM 27. BATTERIES a. Must start engine; no corrosion present. b. Battery cables shall be tight and rubber covers serviceable and installed correctly. c. Fluid levels shall be correct. d. Battery compartment shall be clean. e. Access doors and hardware shall be serviceable. 28. PTS ACTUATOR Visually inspect PTS actuator. Bottom elbow shall be parallel to the centerline of the cylinder hose. Swaged end shall be toward the front of the engine. Swaged end of the top hose will be positioned at approximately the 6 - 7 o'clock position. **29. AIR INDUCTION** a. Access doors, grills, and mounting hardware shall be serviceable. **SYSTEM** b. Precleaner assembly shall be free of dents and cracks. Must seal on plenum box. Latches shall be serviceable. Damaged Vortex Tubes shall not exceed 9 unserviceable tubes. c. Air cleaner elements (VEE-Packs) shall be clean and serviceable. d. Plenum box shall be clean and free of cracks and broken welds. e. Perform PJAS operational check, maintain 1550 RPM for 2 minutes. System shall start cleaning cycle of 27 pulses, in 2 additional minutes. Oil leaks are unacceptable. Damaged lines, components, and loose 30. ENGINE OIL connections are unacceptable. Refer to Leakage Criteria. TANK/SYSTEM 31. FUEL SYSTEM Fuel lines shall be free of damage. Fuel leaks are unacceptable. Fire sheathing shall be serviceable. Loose connections are unacceptable. NOTE: IGV/PTS components are part of the fuel system. 32. AIR BLEED Shall be free of cracks, breaks, holes, or tears. All mounting **TUBE** hardware and clamps shall be serviceable and tight.

ITEM	STANDARD	INSPECTOR
33. AIR SCAVENGER TUBE	Cracks, breaks, holes, or tears are unacceptable. All mountinhardware and clamps must be serviceable and tight.	ng ——
34. ELECTRICAL HARNESS	Cracks, breaks, bare wires, cracks in heat shrink material an protrusions, or wire braiding are unacceptable	d
35. SMOKE GENERATOR SYSTEM	Damaged, leaking, loose lines and hoses, fittings, clamps, a mounting hardware are unacceptable.	nd 
36. TRANSMI SSION	Transmission components shall be free of damage.	
	Leakage Criteria: No drip except during and immediately at engine operation, when a drip of 1 drop per 5 minutes is allothe Output seal area.	
37. ENGINE AND	a. Fan and coolers must be clean.	
TRANSMISSION OIL COOLING SYSTEM	b. Cracked, missing, or damaged hardware, tubes and fitting unacceptable.	ys are 
	c. Oil leaks are unacceptable.	
38. OIL CROSS OVER TUBE	Damaged tube fittings and oil leaks are unacceptable. Tube not be lying on exhaust duct.	shall
39. ENGINE	a. No exhaust leaks.	
EXHAUST DUCT	b. Seals shall be free of dents, holes, cuts, burns, or damaged/missing hardware.	

ITEM

#### STANDARD

#### INSPECTOR

40. ENGINE	
COMPARTMENT	ľ

- a. Dirty or damaged fire sensors are unacceptable.
- b. Any missing or damaged heat shields are unacceptable.
- c. All hoses, fittings, fluid lines, wiring harnesses, connections/connectors and hardware shall be tight and free of damage that shall be detrimental to operation.
- d. All components shall be mounted properly with serviceable hardware.
- c. Brake and steering controls shall be free from damage.
- f. Mounting pins shall be serviceable and chains shall be mounted.
- g. Electrical panel connectors shall be free of arcing Connectors shall lock tight to the panel.
- h. No more than 1 quart of oil consumption permitted in 1 hour.
- i. Negative and Positive electrical quick disconnects will be silicone from water exposure.

Leakage Criteria: (Engine/Transmission Mating Area) No more than 4 drops of fluid per minute. (Engine) A total of 3 drops, 9ccs, per minute is allowed at the Accessory Gearbox drains during engine running or up to 2 hours after shutdown. No evidence of oil at any of the 4 weep holes. (Output Shaft Seal, # 10) Shall not exceed 2 drops, 6ccs, per minute during engine running or up to 2 hours after shutdown. (All other areas) Shall exhibit no leakage greater than 2 drops, 0.1ccs, per hour.

41. HEAT EXCHANGER HYDRAULIC Must be clean, no oil leaks, and all components shall be serviceable

9 December 2002 SOW-04-CBG-08953A-5/1 STANDARD INSPECTOR ITEM **42. FIRE** a. Check all fire bottle gages for proper pressure relative to ambient temperature. All labels shall be legible. **EXTINGUISHER** b. Check for proper mounting, adjustment and serviceability of all hardware. c. Verify bottles are tight, in mounting brackets, and torqued properly. d. Insure safety pin and anti-recoil plug are present and serviceable. e. Hydrostatic Test Date MUST have three (3) years remaining; if not, fire extinguisher **MUST** be Hydrostatically tested and stamped with the correct date. NOTE: In addition, Hydrostatic Test Date shall be stenciled in 1inch letters in a visible area on the fire bottle. 43. HYDRAULIC a. Filter indicators shall not be popped out. **SYSTEM** RESERVOIR b. Safety pins shall be present. c. Filter and indicators shall be safety wired. d. Loose or damaged hardware and components are unacceptable. e. Fluid level shall be FULL at O pressure. f. Check Hull distribution manifold for leaks. 44. HULL a. Pins and door shall be serviceable and operate freely. **AMMUNITION** COMPARTMENT b. Excessive looseness, broken rollers etc. that will cause door to bind on track is unacceptable. c. Mounting brackets and seals shall be free from distortion. d. Tubes shall be serviceable, plunger must move freely. e. Bent, broken or missing springs are unacceptable. Angle of

spring shall be less than 90 degrees.

f. Shall be clean and free of moisture.

TEM	STANDARD	INSPECTOR
45. HULL ELECTRICAL	All cables shall be free of damage. Mounting hardware and connectors shall be serviceable.	·
46. STEERING BRAKE CONTROLS	Must be serviceable. No binding and function properly.	<del></del>
47. HULL ELECTRICAL NETWORKS BOX	Must be free from cracks, breaks, and loose connections. All circuit breakers shall operate properly and labeling legible.	1
48. PERSONNEL HEATER	a. Shall operate properly. Insure all indicator lamps function	l
	b. Heater controls shall operate freely. No fuel or exhaust le acceptable.	aks are
49. DRIVERS NIGHT VISION (DNV)	a. System shall be operational and checked with operational Mounting and storage device shall be serviceable.	DNV.
	b. DNV shall operate properly.	
50. DRIVER'S HATCH	a. Shall open, close, and lock into position freely.	
	b. Seal shall be serviceable. Minor nicks and cuts that do no serviceability are acceptable.	t affect
	c. Periscopes shall be installed and serviceable. Wipers/ was must be operational.	sher
	d. Knobs shall operate freely. All hardware shall be present serviceable.	and
	e. Check drivers hatch interlock system operation.	
51. DRIVER'S DOME LIGHT	Must operate properly. Lenses shall not be cracked or broke mounting hardware shall be installed and serviceable. Red clenses are acceptable.	
52. DRIVER'S SEAT	a. Shall be serviceable. All adjustments shall operate proper	ly
	b. Headrest shall be serviceable and lock into position.	
	c. Cushion tears of 1 inch or less may be taped.	
53. TURRET PUMP/GAGE	Check operation and component serviceability. Seal must he PSI for a minimum of 20 minutes.	old 25

ITEM	STANDARD	INSPECTOR
54. BILGE PUMP	Must be serviceable with no unusual noise.	
55. CLEANLINESS OF VEHICLE	Vehicle must be clean.	
56. NBC BACK-UP SYSTEM	a. Hose, connectors, and orifices shall be serviceable.	
	b. Air flow must be evident at hose end with system opera NOTE: At all crew stations (4)	iting.
57. MAIN NBC SYSTEM	a. Remove NBC sponson covers and insure box is clean a replace seal.	nd
	b. With engine running at tactical idle; check that the NBC mode light is lit. Feel for air escapage at all hoses and clar box.	
	c. Turn air temp control knob to full warmer position and warm air at bulk dump valve on the NBC filter manifold.	feel for
	d. While turning air control knob from full cooler position warmer position, have a crewmember observe the NBC exoutput on the left side of the tank. A change in the NBC exoutput should be noticed. If a noticeable change in the NBC exhaust does not occur, or there is no output at the NBC educt, the tank is non-mission capable (NMC).	chaust xhaust BC
	e. Check sponson overheat lights.	
	f. Comply with all "Safety of Use Messages."	

Appendix B B-11

ITEM

STANDARD

INSPECTOR

# **TURRET**

ITEM	STANDARD INS	PECTOR
1. TURRET EXTERIOR	Storage boxes shall be complete and serviceable.	<del> </del>
2. GUN MOUNT	a. Hydraulic leaks are not acceptable.	
	b. Hose connections shall be secure.	
	c. Mounting hardware for all components shall be secure and serviceable.	<b>d</b>
	d. Replenished oil level shall be above minimum.	
	e. Exercise gun if over 90 days has elapsed since last exercis	e
3. GUN TUBE	NOTE: recoil leak criteria apply after exercising/firing.  a. Shall be inspected in accordance with TM 9-1000-202-14	
	b. Must have 50% remaining gun tube life (750 Rounds Remaining).	
	c. Parts I & II of the Weapons Record Book shall be complet TM 4700-15/1	e IAW
	d. Shall be clean.	
4. BORE EVACUATOR	a. Inspect for cracks, dents, and punctures. Ensure all mount hardware is serviceable and complete.	ng 
	b. Shall be properly installed.	
5. THERMAL	a. Shall be installed properly and free of damage.	
SHROUDS	b. Cracks are not acceptable.	

ITEM

STANDARD

INSPECTOR

6. MUZZLE	a. Evidence of moisture inside is unacceptable.					
REFERENCE	b. Cracks, breaks, and loose or missing hardware is unacceptable					
	c. Caution/instruction plate shall be installed and legible.					
	NOTE: With MRS lever to the IN position, reticle must be clear and visible					
7. BREECH GROUP	a. Breech block and loaders tray shall operate without binding and be free of burrs and cracks.					
	b. Chamber, block, breech ring, and extractors shall be free of corrosion/rust and excess wear.					
	c. All components shall clean, lubricated, and function properly.					
8. FIRING CIRCUIT BLASTING	a. Harnesses/wiring must be properly installed and in good condition.					
MACHINE	b. Safety switches and relays shall be properly installed and function properly.					
	c. Firing at all stations shall be functional when checked with firing circuit tester.					
	d. Must pass firing inhibit checks.					
9. MAIN HYDRAULIC PUMP	a. Pressure shall stay between 1500 - 1700 PSI with the engine running.					
•	b. Unusual noises in pump during operation as well as any hydraulic leaks are unacceptable.					
10. AUXILIARY HYDRAULIC PUMP	a. Pressure shall stay between 890 - 1760 PSI during system operation.					
	b. Unusual noises during operation as well as any hydraulic leaks are unacceptable.					
	c. Auxiliary Pump should not run continuously					

ITEM	STANDARD	INSPECTOR			
11. MAIN ACCUMULATOR	a. Nitrogen pressure must be between 600 - 800 PSI.				
	b. All mounting hardware must be serviceable and installed correctly.				
12. ELEVATION MECHANISM	a. Hydraulic leaks are unacceptable.				
MECHANION	b. All mounting hardware shall be serviceable and installed properly.				
	c. Cylinder check valves shall be laced.				
	d. Filter indicators should not be popped out.				
13. LIGHT SWITCHES RHEOSTATS	a. Shall be properly installed and function properly				
14. SMOKE GRENADE SYSTEM	a. Switches, wiring, and electrical components shall be proper installed and serviceable.	erly 			
	b. All mounting brackets shall be free of cracks, broken weld All hardware shall be installed and tight.	ls etc.			
15. GUNNER'S PRIMARY SIGHT	a. Must be complete. Ballistic doors must function properly.				
TRIMARI SIGIII	b. Must pass all functional tests and checks.				
	c. All lights, switches, knobs, and levers must be complete as function properly.	nd 			
	d. Leakage of water between Turret and GPS is not acceptable questionable, check with water from outside of Turret. No le is acceptable.				
	e. Moisture and/or fungus present in sight are unacceptable.				

9 December 2002

TEM	STANDARD	INSPECTOR
16. GPS EXTENSION	a. Field of view must be equal to that of the GPS.	
	b. Diopter setting shall be capable of +2 to -6.	
	c. Moisture or fungus in sight is unacceptable.	
17. GUN/TURRET POWER CONTROL	a. Control handles must be capable of operation in elevation azimuth. Commander's handle must override.	n and
	b. Check for proper response and smoothness.	
	c. Check azimuth deck clearance switch for proper operation	n
18. GUN/TURRET MANUAL	a. Must be capable of elevation/depression and azimuth morof the turret and gun.	vement
CONTROL	b. Check for proper response and smoothness.	
	c. Turret shall traverse in both speeds.	
19. STABILIZA- TION	Must be capable of maintaining target acquisition regardles movement.	s of hull
20. LOADER'S PANEL	Must be installed properly. All switches and lights shall be functional.	
	Must be installed properly. All switches and lights must be functional. All panel functions must be operational.	
22. LOADER'S	a. Seat and platform must lock in all positions.	
STATION	b. Knee, toe, and shoulder guards must be installed and free damage	e of
	c. Cushions will have no padding missing. Tears exceeding are not acceptable. Tears less than 1 inch must be taped.	1 inch
23. LOADER'S	a. Hatch must be operational and lock in all positions.	
НАТСН	b. Seals must be serviceable.	
	c. Periscope turntable must operate smoothly	

9 December 2002

ITEM STANDARD INSPECTOR

25. GUN/TURRET LOCKS 26. COMMANDER'S STATION	Missing, bent, or damaged parts or welds are unacceptable. Must engage and disengage properly.  a. Seat and platform must lock in all positions.					
STATION	b. Guards must be installed, operational and free from damage.					
	c. Cushions will have no padding missing. Tears exceeding 1 inch are unacceptable. Tears of 1 inch or less will be taped.					
	a. Must be serviceable and lock in all positions.					
НАТСН	b. Seal must be serviceable.					
28. COMMANDER'S WEAPON STATION	a. Must be capable of 360-degree traverse in both power and manual modes.					
	b. Operation must be smooth during tracking.					
	c. Commander's sight must be properly installed and the field of view shall follow the motion of the gun.					
	d. Sight must be free of moisture and fungus.					
29. GUNNER'S	a. Seat must be complete and must lock in all positions.					
STATION	b. All guards must be installed, free of damage and operate properly.					
	c. Cushions will have no padding missing. Tears exceeding 1 inch are not acceptable. Tears of 1 inch or less shall be taped.					
30. GUNNER'S AUXILIARY SIGHT	a. Check for proper function, i.e. reticle brightness, focusing ring, filter knob, and selector knobs.					
	b. Moisture and/or fungus in sight are unacceptable.					

Appendix B B-16

### STANDARD

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31. TURRET DISTRIBUTION MANIFOLD	Check for leaks. Leakage is unacceptable.
32. TURRET NETWORKS BOX	a. Check for proper installation of all components, wiring harnesses, circuit breakers, and connectors.
	b. Check all visible harness assemblies near the electronics rack and networks box for frayed insulation and broken wires.
	c. Check all visible ground points for cracks, broken lugs, or loose connections.
33. TRAVERSING MECHANISM	a. Must be properly installed and functional.
MECHANISM	b. Fluid must be at the proper level
	c. Manual drive mode light must come ON when manual palm handle is depressed.
	d. Filter indicators shall not be popped out.
34. WIRING HARNESS	a. Check for "F" symbol and fire control fault malfunction light.
HARINESS	b. Check for cracks, breaks, cracks in heat shrink material, and protrusions of wire or abrading.
	c. All cables within the turret, especially those near the circuit breaker box and loader's position should be dressed and tie wrapped.
35. AMMO STORAGE TURRET	a. Doors must be operational. Knee switch and door edge safety switches must be operational. All mounting hardware, hoses, pins, and latches must be serviceable and function properly.
	b. Seals and rails must be clean and free of cracks burrs, breaks and excessive wear.
	c. Caliber .50 and 7.62 ammo boxes must be serviceable and installed properly.

SOW-04-CBG-08953A-5/1 9 December 2002

ITEM STANDARD INSPECTOR

36. CROSSWIND SENSOR	a. Must be installed properly. Mount should be free of cracks.  Latch assemblies and strikes must be free from cracks, bends, breaks, and loose or missing screws and must lock tightly in the upright position. Fraying of cable is unacceptable					
	b. Sensor ports must be clean and free of cracks and dents					
	c. Web strap must be serviceable. Fraying or missing strap components is unacceptable					
	d. Cushioning pad must be serviceable and glued properly.					
	e. Must function properly.					
37. COMPUTER CONTROL PANEL	a. Computer must accept and store all inputs from the control panel and TCP.					
	b. Must pass computer self test					
38. BORESIGHT	Boresight main gun and fire control systems. Ensure system is capable of achieving and maintaining boresight information.					
39. PURGING,	a. GPS.					
CHARGING, SERVICING	b. GAS.					
	c. Commander's Extension.					
	d. CWS Sight.					
	e. LRF.	_				
	f. ICU					
	NOTE: Moisture and/or fungus in sights are unacceptable.					
40. THERMAL	a. Perform TIS checkout procedure.					
IMAGING SYSTEM	b. Insure all knobs and switches operate properly.					

Appendix B B-18

ITEM	STANDARD	INSPECTOR
41. LABELS	a. All labels and decals must be affixed throughout the turre	et
DECALS	b. All labels shall be legible and not obstructed by paint or	grease.
42. PLRS	Ensure all mounting hardware is complete.	
43. MCD	Ensure all mounting hardware is complete.	
<b>44. EAP</b> U	a. Unit must be installed properly and securely in the bustle	rack.
	b. Class I, II, and III oil and fuel leaks are unacceptable.	
	c. Check units' operation from all positions and voltage out	put.
45.COMMUNICA-	a. Ensure intercom system is operational from all crew stati	ons.
TIONS	b. Ensure "SINCGARS Installation Kit" is installed and co	mplete.

**46. MODIFICATIONS:** Ensure all modifications are correctly applied.

B-19

# Missing Parts LTI - M1A1

Prod#	USMC#	Insps	Date//_	
	Engine#	Trans#		

Nomenclature	NSN/PN	OK	Missing	Damaged	Remarks
Left Side		1			
		1			
No 1 Skirt	2510-01-166-2044				
No 2 Skirt	2510-01-166-2045				
No 3 Skirt	2540-01-071-9044				
No 4 Skirt	2540-01-071-9043				
No 5 Skirt	2540-01-071-9045				
No 6 Skirt	2510-01-166-2049				
NBC Cover, Rear	5340-01-233-1140	1			
NBC Cover, Middle	<b>53</b> 40-01-230-8815		<del></del>		
NBC Cover, Front	5340-01-227-7785		·		
NBC Plate	9515-01-199-2405	1			
Retaining Plate, Short	5340-01-201-8049				
Retaining Plate, Long	5340-01-201-8048			-	
NBC Armor Plate, Front	5340-01-231-4961				
NBC Grill, Middle	2510-01-201-4801				
NBC Armor Plate, Rear	9515-01-230-8818				
NBC Cover Access	5340-01-230-8816				
Splash Guard (side)	2540-01-199-2407				
Splash Guard (rear)	2540-01-199-2408				
Hub, Final Drive	3040-01-065-9133				
Sprocket, Wheel	3020-01-065-6209			<del></del>	
Final Drive	2520-01-167-4282				
Road Wheels	2530-01-201-4816				
Road Arms	2530-01-180-8676				
Idler Arm L/S	2530-01-179-1416				
Road Arm (#2 &7)	2530-01-185-5974				
Road Arm (#1)	2530-01-065-6297				
Bumper Stop (rear)	2540-01-180-9846				
Bumper stop (front)	5340-01-180-9847				
Bumper stop (Bolt-on)	5340-01-065-6143				· ·
Exhaust Grille Doors					
Left Rear Grille	2510-01-142-8281				
Left Rear Grille Grate	2510-01-317-5493		<del></del>		
Center Grate (exhaust)	2510-01-318-4174			-	
Right Rear Grille	2510-01-317-3949		-		
Right Rear Grille Grate	5670-01-147-9921				

Prod#	USMC#	Insps	Date/
	Engine#	Trans#	

Nomenclature	NSN/PN	OK	Missing	Damaged	Remarks
Left Side					
		1			
No 1 Skirt	2510-01-166-2044				
No 2 Skirt	2510-01-166-2045				
No 3 Skirt	2540-01-071-9044				
No 4 Skirt	2540-01-071-9043	1			
No 5 Skirt	2540-01-071-9045				
No 6 Skirt	2510-01-166-2049				
NBC Cover, Rear	5340-01-233-1140				
NBC Cover, Middle	5340-01-230-8815	1			
NBC Cover, Front	5340-01-227-7785				
NBC Plate	9515-01-199-2405				
Retaining Plate, Short	5340-01-201-8049				
Retaining Plate, Long	5340-01-201-8048				
NBC Armor Plate, Front	5340-01-231-4961				
NBC Grill, Middle	2510-01-201-4801				
NBC Armor Plate, Rear	9515-01-230-8818				
NBC Cover Access	5340-01-230-8816		Ţ.		
Splash Guard (side)	2540-01-199-2407	-			
Splash Guard (rear)	2540-01-199-2408	1			
Hub, Final Drive	3040-01-065-9133				
Sprocket, Wheel	3020-01-065-6209				
Final Drive	2520-01-167-4282				
Road Wheels	2530-01-201-4816				
Road Arms	2530-01-180-8676				
Idler Arm L/S	2530-01-179-1416				
Road Arm (#2 &7)	2530-01-185-5974	<u> </u>			
Road Arm (#1)	2530-01-065-6297		<u> </u>		
Bumper Stop (rear)	2540-01-180-9846				
Bumper stop (front)	5340-01-180-9847				
Bumper stop (Bolt-on)	5340-01-065-6143				
Exhaust Grille Doors					
Left Rear Grille	2510-01-142-8281				
Left Rear Grille Grate	2510-01-317-5493				
Center Grate (exhaust)	2510-01-318-4174				
Right Rear Grille	2510-01-317-3949				
Right Rear Grille Grate	5670-01-147-9921	<u></u>	<u> </u>		1

# Missing Parts LTI - M1A1

USMC#	HULLA	Insps	/Date / /
_			

Nomenclature	Per Veh	NSN/PN	Ins	Miss	Dam	Remarks
Turret - Exterior						
Bustle Stowage Rack	l ca	2590-01-374-7200				
L/S Hand Rails - Top	1 ca	4710-01-345-4963				
Middle	] ea	4710-01-345-4965				
Bottom	l ea	4710-01-345-4964				
L/S Bracket Cable	2 ea	1015-01-079-8405				
L/S Clips	5 ea	5340-00-097-6323				
L/S Stowage Box	1 ea	2540-01-190-3243				
Cross wind Sensor	1 ea	1230-01-241-0438				
(a) Latches	2 ев	5340-01-105-3973				
(b) Cable & Grnd Strap	] ea	6150-00-916-3979				
(c) Hold Down Bracket	l ea	5340-01-079-8430				
(d) Strap, Webbing	l ea	5340-00-664-0364				
(e) Cover, Access	l ea	5340-01-187-2729	1,			
Antenna Mounts	2 ea					
Environmental Panel	l ca	5340-01-079-3067				
L/S Blow-off Panel, old style	l ca	5340-01-216-7075				
R/S Blow-off Panel, old style	l ea	1560-01-176-8747				
L/S Blow-off Panel, new style	2 e <b>a</b>	5340-01-333-2574				
R/S Hand Rails - Top	l ca	4710-01-345-2465				
Middle	i ea	4710-01-345-2467				
Bottom	1 ea	4710-01-345-2466				
R/S Bracket Cable	2 ea	1015-01-079-8405				
R/S Clips	5 <b>ea</b>	5340-00-097-6323				
R/S Stowage Box	l ea	2540-01-192-4034				
CWS Weapon Mount	l ca	P/N 12274211				need stock no.
CWS Hatch	l ea	2510-01-340-9478				
Loader's M/G Mount Assy	1 ea	P/N 12273973				need stock no.
Loader's Skate Track	l ea	1015-01-074-8941				
Loader's Hatch	l ea	2510-01-350-5870			- •, · · · · ·	
Loader's Periscope	l ea	6650-01-320-5628			· · ·	

Nomenclature	Per Veh	NSN/PN	Ins	Miss	Dam	Remarks
Loader's Periscope Mount	l ea	1015-01-278-8974				
Grenade Launcher	2 <b>ea</b>	1040-01-095-0091				
L/S Bekt Grenade Launcher	1 ea	5340-01-278-8974				
Outer Bkt	l ca	5340-01-333-2300				
Inner Bkt	l ea	5340-01-074-8944				
R/S Bckt GrenadeLauncher	l ea	5340-01-076-8479				
Outer Bkt	l ca	5340-01-333-2301				
Inner Bkt	l ea	5340-01-076-8974				
GPS Dog House	l ea	5340-01-426-2502	<u> </u>			
Main Gun Shield	l ea	P/N 12344355				need stock no.
L/S Gun Mount Guard	l ca	1015-01-176-8711				
R/S Gun Mount Guard	l ea	3020-01-176-8710				
Guard Weldment	l ea	1015-01-090-7580				
Rear Thermal Shroud	l ea	1015-01-177-2671				
Front Thermal Shroud	l ea	4710-01-206-0066				
Bore Evacuator	1 ca	1015-01-215-0674				
Main Gun Tube	l ¢a	1015-01-212-8575				
MRS	1 ea	1240-01-409-0784				
Loader's Station						
Turret Networks Box	1 ea	5975-01-316-9270				
Magazine Stowage Box	l ea	1005-01-190-8533				
Chest Guard	l ea	1015-01-185-5391				
Panel	l ea	1015-01-126-4268				,
Knee Guard Main	l ea	1015-01-250-5976				
Guard Attachment	1 ea	3020-01-363-2392				
Seat Assy	1 ea	P/N 12337674			,	need stock no.
Safety Screen (lg.)	l ea	5340-01-260-2214				
Safety Screen (sm.)	l ea	2590-01-072-4180				
King Guard Front	l ea	5340-01-304-1688				
Middle	l ea	1015-01-184-1688				
Back	l ea	5340-01-072-4514				
Accessory Box	l ca	2540-01-203-3134				
Oriver's access. Screen Assy	l ca	1015-01-286-5189				
Basket, Access Door	l ea	5340-01-184-1681	1			
Dome Light	3 ea	6220-01-195-6637	1			
Fire Sensor	3 ea -	2540-01-072-9931				·

Nomenclature	Per Veh	NSN/PN	Ins	Miss	Dam	Remarks
Head Pad (cont d)	l ea	1015-01-072-4519				
Ammo Compartment		·				
Loader's Knee Switch	l ea	6150-01-188-7859				
Lever, Loader's Knee Switch	1 ca	5340-01-079-1829				
Ready Door Safety Switch	1 ca	1240-01-248-6852				
Ready Door Harness	1 ea	5930-01-211-3675				
Ready Door Actuator	1 ea	3040-01-083-9011				
9-Round Ammo Rack	1 ea	P/N 12336134				need stock no.
8-Round Ammo Rack	l ca	P/N 12336135				need stock no.
Semi Ready Door Guard	1 ca	2540-01-205-9659				
Semi Ready Door	l ca	5340-01-318-9746				
Semi Ready 9 md Rack	l ea	P/N 12336426				need stock no.
Semi Ready 8 rnd Rack	l ca	P/N 12336427				need stock no.
Main Gun						
Breech Assy	l ea	1015-01-165-4845				
Arming Lever	l ca	5340-01-266-1629				
Coax Ammo Box	1 ca	2540-01-254-4774				
Coax Feed Chute	l ca	1015-01-257-4163				
Replenisher	l ea	4320-01-076-6719				
Coax <sup>1</sup> M/G Mount	l ea	1015-01-181-6023				
Coax Spent Brass Chute	l ca	1015-01-179-9424				
Coax Spent Brass Box	1 ca	1015-01-179-9369				
Coax Solenoid	l ea	5945-01-079-2910				
Travel Lock	1 ea	1015-01-444-5987				
Front Louvered Screen	l ea	2805-01-203-2773				
Coax Smoke Chamber	1 ca	4320-01-181-1702				
Water Bottle	l ea	8125-01-229-5506				
Elevation Mechanism	l ea	1015-01-076-6741				
Elevation Servo Mechanism	l ea	1015-01-122-9401				
Main Accumulator	l ea	3040-01-105-4026				
Commander's Station						
Unity Periscope	1 ea	1240-01-319-5340				
CWS Vision Blocks	5 ea	1240-01-319-5339				
CWS Sight	1 ea	1240-01-259-9095				
CWS Elev/Firing Mech.	1 ea	1015-01-206-0170				
CWS Motor Brake	l ea	3010-01-316-0190				

Nomenclature	Per Veh	NSN/PN	Ins	Miss	Dam	Remarks
CWS Traversing Mech.	1 ea	1015-01-076-6691				
CWS Control Handle	l ea	1290-01-076-6740				
CWS Travers. Control Handle	l ea	1015-01-204-9984				
Dome Light	l ea	1015-01-119-4006				
Control Panel	l ea	6110-01-308-8490		<u> </u>		
Circuit Tester Box	l ea	2540-01-273-9510		<u> </u>	<u> </u>	
Seat Assy	l ea	P/N 12310805				need stock no.
Leg Guard	l ea	1015-01-188-2978				
Spring Step	l ca	1015-01-260-2730				
Platform	l ea	1015-01-187-1047		ļ		
Safety Screen	l ea	2590-01-072-4183				
Ring Guard - Front	l ea	5340-01-260-2289	<u> </u>			
Back	1 ea	3020-01-072-4684			ļ	
Turret Lock	l ea	1015-01-074-5746				
50 Cal. Stowage Box	l ea	8140-01-258-7863	<u> </u>			
Intercom Switch	1 ca	6150-01-189-7709				
GPS Extension	l ea	1230-01-077-7584				
Power Control	l ca	5998-01-186-8475				
Cant Unit Assy	l ea	1015-01-272-0862				
Gunner's Station						
Seat Assy	1 ca	P/N 12931164				need stock no.
Primary Sight	1 са	1240-01-380-0280				
Laser Range Finder	1 ea	1240-01-264-2040			· ·	
Laser Eye-Safe Filter	1 ca	1015-01-234-8165	<u> </u>			
Laser Eye-Safe Pouch	l ca	1015-01-234-8166			<u> </u>	
Thermal Receiver Unit	l ea	5855-01-381-5087				
Control Handle Assy	l ea	1290-01-428-2547	ļ	ļ		
Manual Elevation Pump	l ea	4320-01-201-0814			ļ	
Equilibrator Accumulator	l ea	2520-00-508-0126	_		<u> </u>	
Traversing Mechanism	l ea	P/N 12283646				need stock no.
Traversing Servo Mechanism	l ea	1015-01-076-6739		<b></b>	1	
Manual Drive Assy	1 ea	1015-01-238-8186				
Gunner's Chest Pad	lea	P/N 12280486	<u> </u>		ļ	need stock no.
Hydraulic Pressure Gage	lea	6620-01-083-4672	<u> </u>	-		·
Auxiliary Sight	lea	1240-01-370-3674				
Ammo Temperature Gage	l ea	6685-01-411-5966				

C-6

Nomenclature	Per Veh	NSN/PN	Ins	Miss	Dam	Remarks
Computer Control Panel	l ca	1220-01-384-5683				
Electronic Rack Guard	l ea	5960-01-190-9695				
ICU - Image Control Unit	l ea	1240-01-246-1872				
Slip Ring Guard	l ca	5340-01-188-7718				
Line of Sight Unit	l ea	5999-01-171-4774				
Gun/Turret Drive Unit	1 ea	5999-01-190-6175				
Computer Electronic Unit	l-ea	1220-01-372-0720				
Thermal Power Cont. Unit	l ca	1240-01-162-0367				
Thennal Elect. Unit	l ea	1220-01-383-7026				
Blasting Machine	1 ea	2590-01-081-4191			ļ	
Knee Guard	l ea	5340-01-074-0007		<u> </u>	<u> </u>	
Intercom Switch Foot	l ca	5930-01-127-3868				
Intercom Bracket	l ea	2510-01-189-4662			<u> </u>	
Safety Screen - Front	l ca	2590-01-072-4182				
Back	l ea	2590-01-072-4181			<u> </u>	
Ring Guards - loaders	l ea	5340-01-304-9931				
Middle loaders	1 ca	5340-01-072-4513				
Back loaders	l ca	5340-01-072-4514			<u> </u>	
MCD Plate Mounting	2 ea	5340-01-415-0627				
MCD Bkt Mounting	4 ea	5340-01-422-4945				
Cable						
IW101-9	1 ca	6150-01-392-0065				
1W501	l ea	5935-01-095-4040				
1W102-9	l ea	5995-01-392-2176				
1W104	l ea	6150-01-392-0062		<u> </u>		
IW105-9	l ea	5995-01-192-4082				
1W106	l ea	6150-01-391-8455				
1W107-2	l ea	6150-01-411-1267				
1S242 Deck Cable	l ea	6150-01-190-3327		ļ		
1W107-9	l ea	6150-01-391-1053				
1W108-9 Mod Blaster	l ea	6150-01-392-0063				
1S100	l ea	6150-01-187-9719				
1W109	l ea	5995-01-384-7895				
IW110	l ся	6150-01-076-6779				
IW170-9	l ea	6150-01-374-5498				
1W500	lea	6150-01-373-4464	ļ			

Nomenclature	Per Veh	NSN	Ins	Miss	Repl	Remarks
1W505 MCD	] ea	6150-01-374-9886				
1W111-Bungie Cord	l ea	6150-01-271-8016				
1S101-Ammo Knee Cord	l ea	6150-01-188-7859				
1S107- Ammo Door Roller Switch	1 ea	5930-01-262-1512				
1W117-9	l ea	5995-01-392-2174				
1W200-9	1 ea	6150-01-393-3723				
1W201-9	1 ca	6150-01-393-3724				
1W202-9	l ea	6150-01-393-3726				
1W203-9	l ca	6150-01-394-1713				
1W204-9	l ea	6150-01-393-3725				
1W205-9	1 ea	6150-01-391-4932				
1W206	1 ea	6150-01-390-8589				
1W207-9	l ea	6150-01-395-3530				
1W208-9	I ca	6150-01-391-1052	<u> </u>		ļ	
1W209-9	l ea	6150-01-391-4929				
1W210-9	l ca	6150-01-391-1058				
1W211	1 ca	6150-01-391-8453			ļ	
1W323	l ea	5995-01-392-2171			<u> </u>	
1W326-9	l ea	5995-01-341-0000			<u> </u>	
1W324-9	l ea	6150-01-393-7048			<u> </u>	
1W171-9	l ca	6150-01-374-5487				
1W501	1 ea	6150-01-376-2053			<u>.</u>	
1W503	l ea	6150-01-374-9888		<u> </u>	<u> </u>	
Launcher Cable	l ea	6150-01-330-9436		ļ		
Launcher Cable	l ea	6150-01-330-9435	<u> </u>		ļ.	
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# OPTICS MISSING PARTS LTI -M1A1

USMC

<u>INSPS</u>

DATE

NOMENCLATURE	PER VEHICLE	N\$N/PN	INS	MISS	DAM
UNITY PERISCOPE	1 EA	1240-01-319-5340			
GPS EXTENSION	1 EA	1230-01-077-7584			
GUNNERS PRIMARY SIGHT	1 EA	1240-01-380-0230			
LASER RANGEFINDER	1 EA	1240-01-264-2040			
LASER EYE SAFE FILTER	1 EA	1015-01-234-8165			
LASER EYE SAFE POUCH	1 EA	1015-01-234-8166			
THERMAL RECIEVER UNIT	1 EA	5855-01-381-5087			
COMPUTER CONTROL PANE		1220-01-384-5683	<u> </u>		•
ICU-IMAGE CONTROL PANEL		1240-01-246-1872			
LOS LINE OF SIGHT EU	1 EA	5999-01-171-4774			
GUN TURRET DRIVE EU	1 EA	5999-01-190-6175			
COMPUTER ELECTRONICS U	1 EA	1220-01-372-0720			
POWER CONTROL UNIT	1 EA	1240-01-162-0367			
ELECTRONICS UNIT	1 EA	1220-01-383-7026			
GUNNERS AUX SIGHT	1 EA	1240-01-370-3674			
MUZZLE REFERENCE SIGHT	1 EA	1240-01-409-0784			
CONTROL HANDLE ASSY	1 EA	1090-01-076-6865			
COMMANDERS GRIP	1 EA	1290-01-076-6740			
TURRET CONTROL PANEL	1 EA	6110-01-308-8490			
INTERCONNECTING BOX	1 EA	5975-01-316-9270			
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USMC#	HULL#	 Date//
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Nomenclature	Per Veh	NSN/PN	Ins	Miss	Dam	Remarks
Turret - Exterior						
Bustle Stowage Rack	l ca	2590-01-374-7200				
L/S Hand Rails - Top	1 ca	4710-01-345-4963			<u> </u>	
Middle	i ea	4710-01-345-4965	<u> </u>			
Bottom	1 ea	4710-01-345-4964		<u> </u>		
L/S Bracket Cable	2 ea	1015-01-079-8405			<u> </u>	
L/S Clips	5 ea	5340-00-097-6323				
L/S Stowage Box	1 ca	2540-01-190-3243				
Cross wind Sensor	l ea	1230-01-241-0438				
(a) Latches	2 ea	5340-01-105-3973				
(b) Cable & Grnd Strap	l ca	6150-00-916-3979		<u> </u>		
(c) Hold Down Bracket	l ca	5340-01-079-8430				
(d) Strap, Webbing	1 ea	5340-00-664-0364				
(e) Cover, Access	l ea	5340-01-187-2729				
Antenna Mounts	2 ев					
Environmental Panel	1 ea	5340-01-079-3067				
L/S Blow-off Panel, old style	1 ca	5340-01-216-7075				
R/S Blow-off Panel, old style	l ea	1560-01-176-8747				
L/S Blow-off Panel, new style	2 ea	5340-01-333-2574				
R/S Hand Rails - Top	l ea	4710-01-345-2465				
Middle	l ea	4710-01-345-2467		<u> </u>		
Bottom	l ea	4710-01-345-2466				
R/S Bracket Cable	2 ea	1015-01-079-8405		<u> </u>		
R/S Clips	5 <b>ea</b>	5340-00-097-6323				
R/S Stowage Box	l ca	2540-01-192-4034				
CWS Weapon Mount	l ca	P/N 12274211		<u> </u>	<u> </u>	need stock no.
CWS Hatch	1 ea	2510-01-340-9478			<u> </u>	
Loader's M/G Mount Assy	l ea	P/N 12273973		<u> </u>		need stock no.
Loader's Skate Track	l ea	1015-01-074-8941		<u> </u>	<u> </u>	
Loader's Hatch	I ea	2510-01-350-5870				
Loader's Periscope	l ea	6650-01-320-5628	<u></u>		<u> </u>	

Nomenclature	Per Veh	NSN/PN	Ins	Miss	Dam	Remarks
Loader's Periscope Mount	l ca	1015-01-278-8974				
Grenade Launcher	2 <b>ea</b>	1040-01-095-0091				
L/S Bokt Grenade Launcher	l ea	5340-01-278-8974				
Outer Bkt	l ea	5340-01-333-2300				
Inner Bkt	l ea	5340-01-074-8944				
R/S Bckt GrenadeLauncher	l ca	5340-01-076-8479				
Outer Bkt	l ea	5340-01-333-2301				
Inner Bkt	l ea	5340-01-076-8974				
GPS Dog House	l ea	5340-01-426-2502				
Main Gun Shield	l ca	P/N 12344355				need stock no.
L/S Gun Mount Guard	l ea	1015-01-176-8711				
R/S Gun Mount Guard	l ea	3020-01-176-8710				
Guard Weldment	l ea	1015-01-090-7580				
Rear Thermal Shroud	I ea	1015-01-177-2671				
Front Thermal Shroud	l ea	4710-01-206-0066				
Bore Evacuator	l ca	1015-01-215-0674				
Main Gun Tube	l ea	1015-01-212-8575				
MRS	1 ea	1240-01-409-0784				
Loader's Station						
Turret Networks Box	1 ea	5975-01-316-9270				
Magazine Stowage Box	l ea	1005-01-190-8533				
Chest Guard	I ca	1015-01-185-5391				
Panel	l ea	1015-01-126-4268				
Knee Guard Main	1 ea	1015-01-250-5976				
Guard Attachment	1 ea	3020-01-363-2392				
Seat Assy	l ea	P/N 12337674				nced stock no.
Safety Screen (lg.)	l ea	5340-01-260-2214				
Safety Screen (sm.)	l ea	2590-01-072-4180				
King Guard Front	l ea	5340-01-304-1688				
Middle	l ea	1015-01-184-1688				
Back	l ea	5340-01-072-4514				
Accessory Box	l ea	2540-01-203-3134				
Driver's access. Screen Assy	l ea	1015-01-286-5189				
Basket, Access Door	1 ea	5340-01-184-1681				
Dome Light	3 ea	6220-01-195-6637				
Fire Sensor	3 ea	2540-01-072-9931				

Nomenclature	Per Veh	NSN/PN	Ins	Miss	Dam	Remarks
Head Pad (cont'd)	1 ea	1015-01-072-4519				
Ammo Compartment		·				
Loader's Knee Switch	l ea	6150-01-188-7859				
Lever, Loader's Knee Switch	I ca	5340-01-079-1829				
Ready Door Safety Switch	1 ca	1240-01-248-6852	<u> </u>			
Ready Door Hamess	l ea	5930-01-211-3675		1		
Ready Door Actuator	1 ea	3040-01-083-9011			ļ	
9-Round Ammo Rack	l ca	P/N 12336134				need stock no.
8-Round Ammo Rack	l ea	P/N 12336135			ļ	need stock no.
Semi Ready Door Guard	1 ea	2540-01-205-9659		<b></b>		
Semi Ready Door	l ca	5340-01-318-9746				
Semi Ready 9 md Rack	l ea	P/N 12336426	<u> </u>		<u> </u>	need stock no.
Semi Ready 8 md Rack	1 ca	P/N 12336427	1			need stock no.
Main Gun						
Breech Assy	l ea	1015-01-165-4845				
Arming Lever	1 ea	5340-01-266-1629	$\perp$			
Coax Ammo Box	l ea	2540-01-254-4774				
Coax Feed Chute	1 ea	1015-01-257-4163			<del>                                     </del>	
Replenisher	l ca	4320-01-076-6719		_		
Coax M/G Mount	1 ea	1015-01-181-6023			_	
Coax Spent Brass Chute	l ca	1015-01-179-9424			<u> </u>	
Coax Spent Brass Box	l ca	1015-01-179-9369				
Coax Solenoid	l ea	5945-01-079-2910	1			
Travel Lock	1 ea	1015-01-444-5987	_		<u> </u>	
Front Louvered Screen	l ea	2805-01-203-2773			<del> </del>	
Coax Smoke Chamber	1 ea	4320-01-181-1702				
Water Bottle	l ea	8125-01-229-5506	_+		<u> </u>	
Elevation Mechanism	l ea	1015-01-076-6741	<del></del>			
Elevation Servo Mechanism	l ea	1015-01-122-9401	-			
Main Accumulator	l ea	3040-01-105-4026	5			
Commander's Station			4		<del> </del>	
Unity Periscope	1 ea	1240-01-319-5340		-		
CWS Vision Blocks	5 ea	1240-01-319-5339	_			
CWS Sight	l ea	1240-01-259-909	<del></del>	_		
CWS Elev/Firing Mech.	l ea	1015-01-206-0170	_			
CWS Motor Brake	l ea	3010-01-316-0190				

Nomenclature	Per Veh	NSN/PN	Ins	Miss	Dam	Remarks
Computer Control Panel	l ea	1220-01-384-5683				
Electronic Rack Guard	l ea -	5960-01-190-9695				
ICU - Image Control Unit	l ea	1240-01-246-1872				
Slip Ring Guard	l ea	5340-01-188-7718				
Line of Sight Unit	· 1 ea	5999-01-171-4774				
Gun/Turret Drive Unit	l ea	5999-01-190-6175				
Computer Electronic Unit	l-ea	1220-01-372-0720				
Thermal Power Cont. Unit	l ea	1240-01-162-0367				
Thermal Elect. Unit	l ea	1220-01-383-7026				
Blasting Machine	lea	2590-01-081-4191		<u> </u>		
Knee Guard	I ca	5340-01-074-0007				
Intercom Switch Foot	l ea	5930-01-127-3868				
Intercom Bracket	l ea	2510-01-189-4662				
Safety Screen - Front	1 ca	2590-01-072-4182				
Back	l ea	2590-01-072-4181		<u> </u>		
Ring Guards - loaders	l ea	5340-01-304-9931				
Middle loaders	l ea	5340-01-072-4513				
Back loaders	l ea	5340-01-072-4514				
MCD Plate Mounting	2 ea	5340-01-415-0627				
MCD Bkt Mounting	4 ea	5340-01-422-4945				
Cable						
IW101-9	lea	6150-01-392-0065				
1W501	l ca	5935-01-095-4040				
1W102-9	l ea	5995-01-392-2176				
1W104	l ea	6150-01-392-0062				
1W105-9	l ea	5995-01-192-4082				
1W106	l ea	6150-01-391-8455				
1W107-2	1 ca	6150-01-411-1267				
1S242 Deck Cable	l ea	6150-01-190-3327			7.	
1W107-9	l ea	6150-01-391-1053			·	
1W108-9 Mod Blaster	l ca	6150-01-392-0063				
1S100	l ca	6150-01-187-9719				
1W109	l ea	5995-01-384-7895				
1W110	l ea	6150-01-076-6779				
1W170-9	l ea	6150-01-374-5498			·	
1W500	lea	6150-01-373-4464				

Nomenclature	Per Veh	NSN	Ins	Miss	Repl	Remarks
1W505 MCD	l ea	6150-01-374-9886				
1W111-Bungie Cord	l ea	6150-01-271-8016				
1S101-Ammo Knee Cord	l ea	6150-01-188-7859				
1S107- Ammo Door Roller Switch	1 ea	5930-01-262-1512				
1W117-9	1 ea	5995-01-392-2174	<u> </u>			
1W200-9	l ea	6150-01-393-3723				
1W201-9	1 ea	6150-01-393-3724				
1W202-9	l ea	6150-01-393-3726				
1W203-9	l ca	6150-01-394-1713		<u> </u>	<u> </u>	,
1W204-9	l ea	6150-01-393-3725			<u> </u>	
1W205-9	l ca	6150-01-391-4932				
1W206	l ea	6150-01-390-8589				
1W207-9	l ea	6150-01-395-3530				
1W208-9	1 ca	6150-01-391-1052				
1W209-9	l ea	6150-01-391-4929	1		<u> </u>	
1W210-9	1 ca	6150-01-391-1058			<u> </u>	
[W21]	1 ca	6150-01-391-8453				
1W323	1 ea	5995-01-392-2171				
1W326-9	l ea	5995-01-341-0000				
1W324-9	l ca	6150-01-393-7048				
1W171-9	l ca	6150-01-374-5487				
1W501	] ea	6150-01-376-2053				
1W503	l ea	6150-01-374-9888				
Launcher Cable	l ea	6150-01-330-9436				
Launcher Cable	l ea	6150-01-330-9435				
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INSPS DATE

NOMENCLATURE	PER VEHICLE	N\$N/PN	INS	MISS	DAM
UNITY PERISCOPE	1 EA	1240-01-319-5340			
GPS EXTENSION	1 EA	1230-01-077-7584			
GUNNERS PRIMARY SIGHT	1 EA	1240-01-380-0230			
LASER RANGEFINDER	1 EA	1240-01-264-2040			
LASER EYE SAFE FILTER	1 EA	1015-01-234-8165			
LASER EYE SAFE POUCH	1 EA	1015-01-234-8166			
THERMAL RECIEVER UNIT	1 EA	5855-01-381-5087			
COMPUTER CONTROL PANE	1 EA	1220-01-384-5683	1		
ICU-IMAGE CONTROL PANEL		1240-01-246-1872	1		<del></del>
LOS LINE OF SIGHT EU	1 EA	5999-01-171-4774			
GUN TURRET DRIVE EU	1 EA	5999-01-190-6175	1		
COMPUTER ELECTRONICS L	L	1220-01-372-0720	1		
POWER CONTROL UNIT	1 EA	1240-01-162-0367			
ELECTRONICS UNIT	1 EA	1220-01-383-7026	1		
GUNNERS AUX SIGHT	1 EA	1240-01-370-3674			
MUZZLE REFERENCE SIGHT	1 EA	1240-01-409-0784			<del></del>
CONTROL HANDLE ASSY	1 EA	1090-01-076-6865	<u> </u>		
COMMANDERS GRIP	1 EA	1290-01-076-6740			
TURRET CONTROL PANEL	1 EA	6110-01-308-8490	<b></b>		
INTERCONNECTING BOX	1 EA	5975-01-316-9270	<u> </u>		
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#### APPENDIX D

#### LEAKAGE TERMINOLOGY IS DEFINED AS:

- 1. CLASS I: Seepage of fluid (as indicated by wetness or discoloration) not great enough to form drops.
- 2. CLASS II: Leakage of fluid great enough to form drops but not enough to cause drops to drip from the item being checked.
- 3. CLASS III: Leakage of fluid great enough to form drops that fall from the item being checked.
- 4. WEEP: Any non-recurring evidence of fluid beyond the seal or joint.
- 5. SEEP: Any recurring evidence of fluid beyond the seal or joint that does not result in an accumulation of more than .05 cc volume.
- 6. DROPLET: Any recurring evidence of fluid beyond the seal or joint that does not result in an accumulation of more than .05 cc that does not fall.
- 7. DROP: A volume of .05 cc.
- 8. DRIP: Any recurring evidence of fluid beyond the seal or joint where a droplet or more forms and falls.

Appendix D D-1

# APPENDIX E

## M1A1 WEEKLY STATUS REPORT

Prod. Job	USMC#	Status In	Tear Down	20%	30% Hull Station	35% Turret Station	40% Service Pack	50%	55%	60%	70%	80%	90%_				95%		100%	
Prod. Job #	USMC#	In	Tear Down	Steam	Hull Station	Turret Station	Service Pack		inetali											
Prod. Job #	USMC#	In	Tear Down	Steam	Hull Station	Turret Station	Service Pack		Install			:								
Prod. Job #	USMC#	In	Tear Down	Steam	Hull Station	Turret Station	Service Pack		install								1		l	Į.
Prod. Job # #	USMC#	In	Down	Steam	Station	Station	Pack					Bood	4000		-		1 1			L
		In						Susp.	Pack	NBC	1600 Test	Road Test	1800 Test	Commo	Steam	Paint	cwc	P&P	Div Final	Remar
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9 December 2002

SOW-04-CBG-08953A-5/1

Appendix E

E-1

#### **CONTRACT DATA REQUIREMENTS LIST**

(1 Data Item)

Form Approved

OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and competing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0701-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4392. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid DMB control number. Please DO NOT RETURN your form to the above address. Send completed form to the Government Issuing Contracting Officer for the ContractPR No. Issted in Block E.

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## **CONTRACT DATA REQUIREMENTS LIST**

(1 Data Item)

Form Approved OMB No. 0704-0188

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Please DO NOT RETURN your form to the above address. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

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17. PRICE GROUP

18. ESTIMATED

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### **CONTRACT DATA REQUIREMENTS LIST**

(1 Data Item)

Form Approved OMB No. 0704-0188

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